W. J. WOOD

REDACTED VERSION

REFERRAL AND ATTACHMENTS

5 of 7 copies

XL ATTACHMENTS

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- &. Retackment Ad.
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ATTACHMENT NO. 1
WELL DRILLER'S LOGS

Texas Department of Water Resource's P. O. Box 13087 Sustin, Texas 78711	WATER WE		PORT		Texas Water Wel P. O. Box 13087 Austin, Texas 7	,
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Driller must complete the legal description with distance and direction from two in	ion to the right Section N	lo	Stoc		Cownship	. 3
tion or survey lines, or he must locate a well on an official Quarter- or Holf-Scale General Highway Map and attach the m	nd identify the Abstract			Survey Name	or survey lines	
	See attach	ed map.				
3) TYPE OF WORK (Check);	4) PROPOSED USE (Check):	<u> </u>	5) DRIEL	ING METHOD (Che	ck):	.,
New Well Deepening	☐ Domestic ☐ Ingustrial ☐ Public Sc	pply	Mud R	otary LI Air Hamm	ner O'Driven O'Bo	ored 🦼
☐ Reconditioning ☐ Plugging	Cirrigation (Test Well Chier_	····	1 .	=	Jetted 🛮 Ot	
6) WELL LOG:	DIAMETER OF HOLE	7) 80	REHOLE COM	PLETION:		1 1 2
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Date drilled /C // UZ		"	f Gravel Packed	l give ınterval , fro	om <u>100</u> _ft.t	o <u> </u>
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Please use hlade ink. Send original copy by certified mail to the

State of Texas WATER WELL REPORT

Texas Water Well Drillers Board P. O. Box 13087

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Please use black ick. Send original copy by certified mult to the Texas Department of Water Resources P. O. Box 13087

State of Texas WATER WELL REPORT

Texas Water Well Orillers Board P. O. Box 13087 Austin, Texas 78711

ATTENTION OWNER: Confidentiality Proflege Notice on Reverse Side

VNER W. J. Smit	the Wood Pres.	Address	(Street or	RFO)	Denison (City)	Tx 750
COUNTY 2/0/5/1				, etc.)	ion trom	(Town)
Driller must complete the legal descrip with distance and direction from two i tion or survey lines, or he must locate i well on an official Quarter- or Half-Sca General Highway Map and attach the n	tion to the right ntersecting sec- and identify the de Texas County	Abstract I	o	Surve	Towns v Name secting section or sun	
		See attache	d map.			
3) TYPEOF WORK (Check): Deepening Reconditioning Plugging	4) PROPOSED USE (Check Domestic Industrial Infrigation Fast Well	☐ Public Su	pply	Mud Rotary	METHOD (Check): / Air Hammer [Cable Tool [Driven D Bored
6) WELL LOG:	DIAMETER OF HO Dia, (in.) From (ft.) Surface	To (ft.)	وه 🗅	EHOLE COMPLE on Hole avel Packed	Straight Wall	Underreamed
Date drilled 10-22-85			lf (Gravel Packed give	interval from	98 ft to 30
From To	Description and color of form	nation	8) CASI	NG, BLANK PIPE	, AND WELL SCRE	EN DATA:
9-4 700101	- sand		Dia. Nev (in.) Use	Perf. Sign	ic etc. als, etc. I., if commercial	Setting (ft.)
	elay		8	01.7	#	0-98
26-70 Sand + 5	shale streak	5		5/0//	···	68-48
97-98 shak			Cerry Mest	ented from3	[Rule 319.44(b)] (Rule 319.44(b)] (It to 1.50 (Out Tube	
			□ s □ r	itless Adapter Use	FION lab Installed (Rule 3 d [Rule 319.44(d)] ive Procedure Used (i	
				TER LEVEL:	ft. helow land	surface Date 10-22
			 	Artesian flow		Date
<u> </u>	 		12) PA	CKERS:	Туре	Depth
(Use reverse	side if necessary)		Пт. По	PE PUMP: Irbine [] J		
Did you knowingly penetrate as water?	y strata which contained unde NDESIRABLE WATER"	eirable	14) W	LL TESTS:	ump Bailer	☐ Jettod ☐ Estimated
COMPANY NAME ADDRESS	well was drilled by me (or under idensiand that failure to complete or Print) BOX 557	eto items 1 th	ru 12 wiil i	at each and all of esult in the logisi 's License No	the statements herein being returned for ed	o are true to the best of my ompletion and resubmitted,
\	Water Well Driller		ned:	(Registored Di-	ther frames)	For TDWR use anly
Please attach electric log, chemical as	<u> </u>					Well No Located on map
	DEPARTME	NT OF WA	TER RES	OURCES COPY	•	

Phrase see plack ink. Send original copy by cortified mail to the Texas Department of Water Resources P. O. Box 13087

State of Texas

WATER WELL REPORT

Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Remase Nide

Austin, Texas 7871?	7 ATTENTION OWN		<u> </u>	<u></u>			7502
	Name)	Address	(Street or	RFD)	DENISON (City)	(State)	(Zíp)
County 6164501					tion from	(Town)	
		Legal des	cription:			<u> </u>	
Driller must complete the legal descri	ption to the right	Section	No	Block No	Townsh	ip	*:
with distance and direction from two tion or survey lines, or he must locate	and identify the	Abstrac	ι No	Surve	y Name		
well on an official Quarter- or Half-S General Highway Map and ettach the	map to this form.	Distance	e and directo	on from two inter	sucting section or surve	y lines	
		☐ See aftac	hed mao.		······································	 	
3) TYPE OF WORK (Check):	4) PROPOSED USE (CI			5) DRIELING	METHOD (Check):		· · · · · · · · · · · · · · · · · · ·
E New Weti Decpening			Supply		y 🗆 Air Hammer 🔲	Driven D Bore	d .
Ci Reconditioning Cl Plugging	☐ Irrigation				Cable Tool []		
6) WELL LOG:	DIAMETER OF		7) BOR	EHOLE COMPLE	TION:	4.7	1.1
	Dia. (in.) From (ft.)	To (ft.)		gn Hole avel Packed	Straight Wall	Under	reamed.
Date drilled 10-23-89		102	ÆrGr	avel Packed Sevent Posted our	Other	85 ""	30
24/2 Grinan 777			<u> </u>	araver racked div-	· miteraal min:		1
From To (it.)	Description and color of i material	formation	8) CAS	NG, BLANK PIP	E, AND WELL SCREE	N DATA:	
· · · · · · · · · · · · · · · · · · ·	A CONTRACTOR		Dia.	Steel Steel	Detc.	Setting (ft	
1-8 clay	- sand		(in.) Use	d Screen Mg	ear, etc. f., if commercial		To 3 Sen
-18 Yellow	1 clay		1944	TO		0-2	5 : :
13-20 Clay				5/0	Tred	85-4	5
10-30 Line	T shale stre	ak 5		· .			
70-78 59Ad	-1-la		 	+		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
78-85 Gray	3/10/C-		9) CEN	ENTING DATA	{Rule 319.44(b)}		***
	-				30 ft. to	0	ft.
					ft.jo		fı.
		 	→		rout tabe		
	<u> </u>	<u> </u>	Cem	ented by		· · · · · · · · · · · · · · · · · · ·	
			10) SU	RFACE COMPLE	TION		
				-	Stab Installed (Rule 31)	9.44(c)}	
					ed (Rule 319,44(d)) tive Procedure Used (R	ule 319 711	y
	<u> </u>						
			11) WA	TER LEVEL: -			
<u>.</u> .	· · · · · · · · · · · · · · · · · · ·		- 8	Static level	ft. below land s	urface Date	10-23-8
			7 1	Artesian flow	gpm.	Date	
			12) PA	CKERS:	Туре	Dep	th .
<u> </u>				 			
	· · · · · · · · · · · · · · · · · · ·	 					
			-	PE PUMP:			
	2 1 2 2	····		urbine 🔲 J	let 🖾 Submersit	ye m	linder
(Use rever	se side it necessary)				cylinder, jet, etc.,	1	
15) WATER QUALITY:							
Did you knowingly penetrate:	any strata which contained u	indesirable	14) W	ELL TESTS:			$\frac{1}{E}$
weter?	JNDESIRABLE WATER"		, T		rump ABailer		Estimated
Type of water?		5-20	-	eld:	gpm with <u>30</u> ft.	drawdown after	hrs.
	well was drilled by me for u	nder my superv	rision) and th	To i'e the rise te	the statements herein :	ore true to the be	est of my
	inderstand that failure to co						
COMPANY NAME MOSE	C Orlling	Wate	r Well Driller	's License No	2386		t
ADDRESS R+ 1	ox 557	<u> Po</u> Z	tz bos	0	TX	7507	6
(Signed) Simulation	alton		Ciry: jigned)		'(State)	(Zip)	11
	ed Water Well Oriller)		•	(Registered Dr		or TDWR use or	ıly
Please attach electric log, chemical	analysis, and other pertinent	information, if	available.			ieli No ocated on map _	· · · · · · · · · · · · · · · · · · ·

Please use black ink

State of Texas

Texas Water Well Drillers Board P. O. Box 13087

Located on map

Send original copy by certified mail to the Texas Department of Water Re. P. O. Box 13087 WATER WELL REPORT Austin, Texas 78711 ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Sule Address threction from (Town) (N.E., S.W., etc.) ☐ Legal description: Oritler must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form. Section No. Survey Name .. Distance and direction from two intersecting section or survey lines ☐ Sen attached map. 3) TYPE OF WORK (Check): 4) PROPOSED USE (Check): 5) DRULLING METHOD (Check): New Well Musi Rotery [Air Hammer Di Driven D Bored C) Deepening ☐ Domestic ☐ Industrial ☐ Public Supply Cirrigation GTest Weit Other. ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other ☐ Reconditioning D Plugging DIAMETER OF HOLE 6) WELL LOG: 7) BOREHOLE COMPLETION: Dia. (in.) ☐ Underreamed ☐ Ogern Hole 🗔 Straight Walt Surface Gravel Packed Other _ If Gravel Packed give interval . . . from ... Description and color of formation 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: Steel Plastic etc. Perf. Siotted etc. Screen Mgr., if commercial Setting (ft.) From " 100-9) CEMENTING DATA [Rule 319.44(b)] 10) SURFACE COMPLETION ☐ Specified Surface Slab Installed [Rule 319.44% Cossina Pitless Adapter Used (Rule 319.44(d)) Above surtace Actesian flow 12) PACKERS: Depth . . . 13) TYPE PUMP: Cylinder □ Turbine Other. (Use reverse side if necessary) Depth to pump bowls, cylinder, jet, etc. WATER QUALITY: Type Test: □ Jetted ☐ Estimated If yes, submit "REPORT OF UNDESIRABLE WATER" Yield: 20 gran with Type of water?. DIK Depth of strata. ☐ Yes Was a chemical analysis made? □ No I here by certify that this well was drilled by me (or under my su Water Well Driller's License No. (Signed)_ (Registered Orifler Trainge) For TOWR use only Well No. Please attach electric log, chemical analysis, and other pertinent information, if available.

Please use black fisk.
Send original copy by
certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas WATER WELL REPORT

Texas Water Well Drillers Boar P. O. Box 13087 Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

OWNER WITE SMITH							
OWNER 1/41. Vt \ 3//////	Wood Kres	Address	· .	·	Venison	-/x T	102
·	lame)		(Street or	RFD)	(City)	(State)	(Zip)
LOCATION OF WELL:		miles in		directio	on fr om		
		***********	(N.E., S.W.	, etc.l		(Town)	:
Fig. 11 to a series and a series about a series about a series and a s	antena an abandata b	Legal desc	ription:	Clark No.	Towns	hip	· ••
Driller must complete the legal descrip with distance and direction from two i	intersecting soc-						•
tion or survey lines, or he must locate well on an official Quarter- or Half-Sci	and identify the				Name		4.0
General Highway Map and attach the t	map to this form.	Distance	e and direction	n from two interse	cting section or sun	vey lines	
		☐ See attack				1.70	
			лец птар.				
3) TYPE OF WORK (Check):	4) PROPOSED USE (C	Check):		5) DRILLING N	IETHOD (Check):		
New Well Deepening	•		-			Driven Bored	
☐ Reconditioning ☐ Plugging	☐ Irrigation	Well 🗆 Other		Air Retery	Cable Tool C	Jetted Other_	
6 WELL LOG:	DIAMETER OF	HOLE	7) BORE	HOLE COMPLET	ION:		
	Dia. (in.) From (ft.	-	_ 🗆 👓	Hole	Straight Wall	☐ Underrea	теф
	Surface	105	2 Gra	wel Packed	□ Other	***	
Date drilled 10-25-89	7		_} :::	ravei Pasked gree i	nterval from	45	05
						<u> </u>	•
From To	. Description and color of	formation	B) CASI	NG, BLANK PIPE	AND WELL SCRE	EN DATA:	in .
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71 30 Share	- 3410 3/10	CCA.3	- 				
20 46 47	iare + spria	42		_ 	45 . 645 444.43		
20-17 200C 1	- 3000 31166	<u> </u>		ENTING DATA		0	
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83-105 Sand	strecks + 2	na ic		6/	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	عرط	
		<u></u>	 i	od used	and a		
			Cerns	ented by	~~~ ~~~~~		
			10) 51#	RFACE COMPLET	iON		-
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<u> </u>			1 _	itless Adapter Used			44-
		· · ·		•	e Procedure Used [Rule 319.711	
	<u> </u>					· · · · ·	
		·	11) WA	TER LEVEL:	119BUE		
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	*		1 8	tatic level C_4	ft. below fand		
						surface Date	
L			<u> </u>		gpin.	surface Date	
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	e side if necessary)		12) PA(PE PUMP:	Туре	Date	
15) WATER QUALITY:			12) PA(PE PUMP: rbine	Type	Date	
15) WATER QUALITY: Did you knowingly penetrate a		undesirable	12) PA(PE PUMP:	Type	Date	
Did you knowingly penetrate a water? Coves Di No	eny strata which contained		12) PA(13) TY 130 TO Dept 14) WE	PE PUMP: critical interpolation in the pump bowls, continued in the pump b	Type t Submers ylinder, jet, etc.,	Date	ft.
Did you knowingly penetrate a water? Wes INO If yes, submit "REPORT OF U Type of water?	iny strata which contained INDESIRABLE WATER	undesirable	12) PA(13) TY 130 TO Dept 14) WE	PE PUMP: critical interpolation in the pump bowls, continuation in the pump bowls, continuatin the pump bowls, continuation in the pump bowls, continuation in	Type t Submers ylinder, jet, etc.,	Date	ft.
Did you knowingly penetrate a water? Wes INO If yes, submit "REPORT OF U	iny strata which contained INDESIRABLE WATER		12) PA(13) TY 130 TO Dept 14) WE	PE PUMP: critical interpolation in the pump bowls, continuation in the pump bowls, continuatin the pump bowls, continuation in the pump bowls, continuation in	Type t Submers ylinder, jet, etc.,	Date	ft.
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Please as black ink. Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087

State of Texas WATER WELL REPORT

Texas Water Well Drillers Boar P. O. Box 13087 Austin, Texas 78711

Criller must complete the legal description to the right Section with distance and direction from two intersecting section or survey lines, or he must locate and identify the Abstract	(N.F., S. cription: No	W. er	Block No	Towns Town
Legal description to the right Section S	cription: No e and direct hed map. 7) 80 [91] 8) CA Dia. (in.)	REHIODE STAVE	Block NoTown	Driven Bored Jetted Other Underreamed ft. to EEN DATA:
Priller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the refl on an official Quarter or Half-Scale Texas County linear Highway Map and attach the map to this form. Sew attack S	No	REHIODE Sravel	Survey Name	Driven Bored Jetted Other Underreamed ft. to EEN DATA:
ith distance and direction from two intersecting second row survey lines, or he must locate and identify the effl on an official Quarter- or Half-Scale Texas County eneral Highway Map and attach the map to this form. Seu attack	re Noe and direct hed map. Supply 7) 80 [91] 8) CA	REHIODE Sravel	Survey Name	Driven Bored Jetted Other Underreamed ft. to EEN DATA:
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From To Description and color of formation (ft.) 0-4 590dy 501/ 4-17 6/0/ 17-20 6/0/+ 01/ 70-24 Linke 24-92 500d + 5hak 92-95 5ha/e	Dia.	ev. or sect	Steel Plastic tc. Peri Siotted etc.	EEN DATA: Setting (ft.)
(ft.) (ft.) material D-4 Sqndy Soll 4-17 Cloy 17-20 Clay+Oll 70-24 Line 24-92 Sand + Shak 91-95 Shake	Dia.	ev. or sect	Steel Plastic tc. Peri Siotted etc.	Setting (ft.)
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91-95 shake	+++	\bot		
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	_ ~	men t	ted by	
	٠,,,,	1406	ACE COMPLETION	
		•	citied Surface Slab Installed (Rule :	319.44(c)]
		Pitle	ess Adapter Used (Rule 319.44(d))	
		Арр	proved Afternative Procedure Used	(Rule 319.71)
	11) V	VATE	RLEVEL: 8' above 54	reface
	 ∤		tic levelft. below tan	
	{		esian flowgpm.	
<u> </u>	12) (ERS: Type	Depth
		~~\\		Debiti
				
	131	TYPE	PUMP:	-
	╗	Turbi	ine 🗆 Jet 🗓 Subme	rsible 🔲 Cylinder
	- -	Other	r	
(Use reverse side if necessary)	~	pth to	o pump bowls, cylinder, jet, etc., _	ft.
15) WATER QUALITY:	100		7	
Did you knowingly penetrate any strata which contained undesirable water? BYes DNo	'7"		L TESTS:	☐ Jetted ☐ Estima
If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? Depth of strets 17-20	-		1: <u>20</u> gors with <u>60</u>	ft. drawdown after
Was a chemical analysis made?	_			12
I here by cardify that this well was drilled by me (or under my super-	vision) end	that t	each and all of the statements here	in ere true to the best of m
knowledge and belief. I understand that feiture to complete items 1				
COMPANY NAME MOSEC DCILLO Water	e Walt fram	la-'- *	License No	6
(Type or Print) Water	n wen uid ,	ier s 1	LICERSS (10	***
ADDRESS ST BOX 553 HATCH	cro		TX	15076
(Struct or RED)	City)		(State)	(Zip)
	Signed)			
(Licensed Water Wull Drifter)	d manuffer to		(Registered Drifter Traines)	For TDWR use only Well No.
Please attach electric log, chemical analysis, and other pertinent information, it	, available.		-	Located on map

ALBERT H. HALFF, CHAIRMAN OF BOARD
JOSE I. NOVOA, PRESIDENT
RAUL WONG, JR., SENIOR VICE PRESIDENT
DON O. BROCK, VICE PRESIDENT
MICHAEL K. KOESLING, VICE PRESIDENT
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WALTER E. SKIPWITH, SECRETARY
GEORGE PRALL, JR.
JEFFREY H. JACOB
DAVID S. MORGAN
MARTIN J. MOLLOY

DALLAS . FT. WORTH . HOUSTON

8616 NORTHWEST PLAZA DRIVE DALLAS, TEXAS 75225 214/739-0094

November 8, 1985 AVO 7964

U. S. Environmental Protection Agency Bazardous Wastes Management Division InterFirst Two Building - 28th Floor 1201 Elm Street Dallas, Texas 75270

Att: Mr. William Rhea (6H-HO)

Re: Certificate of Compliance

W. J. Smith Wood Preserving Company

Dear Mr. Rhea:

This firm has acted as environmental consultants for W. J. Smith Wood Preserving Company (EPA #TXD066368879) located at Denison, Texas. I certify that the Hazardous Waste Management (HWM) Facility is in compliance with all applicable State ground-water monitoring requirements and the closure/post closure financial responsibility requirements which are part of the State's authorized hazardous waste program under Section 3006 of RCRA.

The facility has been unable, despite a documented good faith effort, to obtain sudden/non-sudden environmental impairment liability insurance. The policy is expected to be issued by American International Group and an environmental risk assessment by Pilko and Associates, Inc. has been completed.

As the consultant for W. J. Smith Wood Preserving Company located at Denison, Texas, I knowingly and willfully make this true and accurate certification to the United States Environmental Protection Agency pursuant to Section 3005(e) of the Hazardous and Solid Waste Disposal Act, as amended.

Yours very truly,

Albert H. Halff Associates, inc.

Patrick E. Jolly P.E.

PEJ/kb

ATTACHMENT NO. 2
FACILITY CERTIFICATION STATEMENT

CERTIFICATION STATEMENT

Bill Redding

President

(Nome)

(Tide of Owner or Operator)

certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I further certify that in accordance with Section 3005(e) of the Resource Conservation and Recovery Act, as amended, the subject land disposal unit(s) are in compliance with all applicable ground-water monitoring and financial responsibility requirements of 31 TAC Sections 335.191-335.195 and 335.231-233. I am aware that there are significant penalities for submitting false information, including the possibility of civil penalty, criminal fines and imprisonment.

Signature: Till LOO

Date: 200 4 1985

FROM TOWR PART B PERMIT Application

ATTACHMENT NO. 3
EPA INSPECTION REPORT EXCERPTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE:	2/3/16
UbudCT:	Transmittal Memo - Compliance Monitoring Inspection Report
FROM:	Oher Winesman (Inspector)
TO:	Dave Peters, Chief DW 1/1/14 Hazardous Waste Section (6ES-SH)
	A compliance monitoring inspection was conducted on //s//86 Date(s)
	at the following location:
	Name: W. J. Smith Wood Proconaing Company Address: 1700 West Morton St Deniam Tx. 75020
	EPA I.D. Number: TXD066368879 NPDES Permit No.
	Type of inspection: Joint () Lead ($^{\times}$) Type of facility: Federal () Municipal () Nonmunicipal ($^{\times}$)
	Compliance Monitoring Reports Attached: TSCA () RCRA (χ)
	Comments:
	The operator has certified compliance with ground
	The operator has certified compliance with ground water monitoring regulations but has not certified financial assumance.
	financial assurance.

RORA INSPECTION

I. SITE IDENTIFICATION

. Site Name		3.	Street (or	other identifier)
W. J. Smith Wood Pe	serving Co		1700 Wast	Morton St
City	ا. Sta	ite E.	Zip Code	Movton St. F. County Name
Denison	Tx		75020	Grayson
. Site Operator Informatio	on-			
1. Name			Telephone :	
Same as above			(214) 465-	6161
3. Street	4. Cf1	;y 5.	State	5. Zip Code
. Site Description				
Raland tie m	amelactorina	Company	Cresotin	\mathcal{L}
. Latitude (degminsec.	. 3	Longi	tude (degm	insec.)
 Type of Ownership 				
1. Federal2.	State3. Co	unty4.	Municipal	<u>x</u> -5. Private
. XI. Generator 2.	Transporter X	3. Treatment	χ 4. Stora	ge5. Disposal
	INSPECTION	INFORMATION		
. Principal Inspector Info	rmation			
1. Name			2. Title	•
PAVE Wideman		<i>R</i>	CRA Insp	eitr
3. Organization			-	(area code & No.)
US EPA .		(5	14) 767-	9769
. Inspection Participants			-	
	side at of W.T.	Smith	-	
	sident of W.T.	Smith	-	
	sident of W.T.	Smith		
	sident of W.T.	Smith		

Date 2/3/86.

Site W. J. Smith

1.D. TXD066368879

active RCRA Units
Water treatment unit - Storm runoff water and
excess water removed in the crecoting process are
being treated at the facility. The water runs through
a seperator which hemores the heavy oil (crecoote)
which is recycled. Then the water runs into a
surface impoundment (retention basin) and is then
sumped to the tricking felter treatment towers and
Then discharged The discharge (approximately 50,000 god)
to Duck Creek Treatment Plant is regulated by The
City of Denison at the 5 ppm level for phenols.
Drying beds - The dead parterio from the trickling
filter cystem is placed in drying beds to remove
The water. This unit has been in operation since
1971 and to date the material present has not
required removal for disposal. Declication to the
drying beds occurs twice a year with a total volume
of approximately 1 thousand gallons /ur. On analysis
of approximately I thousand gallons/yr. On analysis of shend content has not been performed.

Partially closed RCRA units.
One surface impoundment is partially closed.
The sludge and sediments have been removed and
shipped to Chemical Waste Management (Carlyso LA).
The improvedent bosin till sensing avoiting
The impoundment from still remains, awaiting
final closure with the concent of TWC.
Soven lagrons were located on MKT railroad
property west of W. J. Smith. These laggoons
were agerated by W. T. smith to store excess studge
from the cresoling process. The lagoons have been
closed. The studge in the lagrons was placed
in a clay lined cell on-site. The water
in The Pageons was removed and treated by
in the lagons was removed and treated by
W. J. Smith.
and grasses have been planted on the cover-soil.
and graphed have been premier on su con sour
Page

Date 2/3/86

Site W.J. Smith

I.D. # TXD066368879

- Violations
While the operator has offered ground-water
monitoring certification, they have not certified
financial assurance and continue to operate
the RCRA regulated units. The aperator has
written a letter of "good faith" to verify
Their search for an insurance company.
see the attacked letter.
Photos of the PCRA regulated units will
Photos of the RCRA regulated units will follow in an addendum along with the part B application and appropriate checklist Colosure post-closure.
part & opplication and a perspriate checklist
(closure * post-closure).
I will check with TWC to sein closure
activities at the facility.
• ;
Page

W.J. Smith wood Preserving Co. RCRA Loss of Interim Status Checklist

	boes facility have an EPA Identification No.? V Yes No
	A. If yes, EPA I.D. No.: 1xD066368879
	B. If no, explain:
2.	Describe all hazardous waste management units at the facility by completing the attached table. See attached narrative and table.
3.	Obtain all manifests from the period 3-6 months prior to November 8, 1985, (if the number exceeds 20 or copying service is not available, complete the attached table in lieu of copying manifests). Also obtain copies of the manifests generated after November 8, 1985. Complete the manifest portion of the Generator Checklist (Section C). For an additional manifest violations on a seperate sheet. See attached manifest.
4.	Does the facility have a groundwater monitoring system? Yes No
5.	If yes, complete the appropriate sections of the Ertec Checklist. If no, explain in narrative. A part 8 application was requested from The generator. Ground water information will follow in an addendum. Has the facility received waste from offsite since November 19, 1980? Yes
	- Since November 8, 1985? Yes No
	If yes, to either question describe the treatment, storage or disposal practices.
6.	Have closure activities begun at the facility? See attached narrative.
7.	If yes, list the unit or units and complete the closure checklist and post/closure checklist if applicable. If possible, please attach a copy of the closure plan. Closure plans will follow in an eddendum. The closure plan is included in the part B. The post-closure care is not addressed Note in a narrative any evidence of the facility placing hazardous waste
	in unit(s) that have lost interim status. Document with photographs, if possible.
	Photographs will follow in an addendum

. Table I

Facility: W.J. Smith

		· · · · · · · · · · · · · · · · · · ·			TKD066368879
List of Haz. Waste Units	Operating Yes/No Date Cl.	Location Where Wa Store, Disposed Prior to 11/8/85		List of Quantities	
Sludge Orying Beds	yes	Constructed in 1971	same	50 cubic ft.	Koos sludge; biological treatment; has not been tested; sludge applied a times/yr.
Stormwater retention Dasin	yes	Put in service in 1971	Same	450,000 gallors	Kool Sludge Concrete Construction
7 lagoons	พอ	in closure			
1 Surface impoundment	No	in closure			
			•		

ATTACHMENT NO. 4

TWC INSPECTION REPORT EXCERPTS

c fu EPA-L.b.
TWC Reg. No. 31372
Solid Wasse Compliance Monitoring Inspection Report C.O. Use Only HAZAGOUS AND SUCID HAZAGOUS AND SUCID
WC Dist. 4 HAZARBOUS ARD SUCID SOCIED SAND SUCID SOCIED SO
EPA ID No. TX0066368879 COMMERCIAL WASTE Facility GOVT. Facility
NAME OF COMPANY W. J. Smith Wood Preserving Co.
MAILING ADDRESS P.O. BOX 703/Denison, Texas 750 20 Tel. 214-465-6161
COUNTY Gray TON TYPE OF INDUSTRY Wood Preserver
GENERATOR CLASSIFICATION: Industrial Municipal
Part A Application submitted to the State? Affidavit of Exclusion submitted to the State? Was a written exclusion granted by TWC? Will this facility require a permit? Yes No If yes, Date Yes No
CURRENT WASTE MANAGEMENT (Haz"H", Class I NonHaz"NH", Class II-"II", Class III-"III
'enerator H, NH II Treatment Storage H, II Disposa) WHII Transporter
HW Exemptions (check): 90-Day Storage Other
*SQG:Total HW Generation Per Month: <100 kg 100-1000 kg.
H W Facilities (circle appropriate codes): C T SI WP LT LF I TT TR WDW O
N H Facilities (circle appropriate codes): C T SI WP LT (LF)(I) TT TR WDW O
Anomalies in the above information will be addressed by: (a) Enforcement in progress 1/(b) Central Office, (c) District Office, (d) Owner/Operator
Type of Inspection (circle): EV EB EC CL GW SA CD FO OT FE SQ S.
Inspector's Name and Title Gerando H. Garcia-Environmental Quality Specialis
Inspection Participants BillyL. Redding-Fresident/Al Petrase K - PhD. P.1

Date(s) of Inspection

Signed: _

^{*} SQG- Small quantity generator, <1000 kg. of hazardous waste per month.

TEXAS WATER COMMISSION Solid Waste Inspection Report CONTENTS SHEET

COMPANY NA	MF W.J. Snith Wood Preserving Co.
W 1.	Code Sheet (BR)A)
<u>√</u> 2.	Inspection Cover Sheet
M/A 3.	Special Inspection Cover Sheet (HB.2358)
<u> </u>	Generators Checklist
<u>NA</u> 5.	Small Quantity Generator Checklist
-1 6	General Facilities Checklist
* 7.	Component Facility Checklists
	A. Containers (C) B. Tanks (T) C. Surface Impoundments (SI) D. Waste Piles (WP) E. Land Treatment (LT) F. Landfills (LF) M/A G. Incinerators (I) H. Thermal Treatment (TT) I. Chemical, Physical, or Biological Treatment (TR) J. Other (O)
<u>v</u> 8.	Closure and Post-Closure Checklist Closure-In-Progress Checkl
-WIA 9.	Groundwater Monitoring Checklist
NIA 14.	Notice of Violation (NOV) Letter
11.	Interoffice Memorandum (ICM)
N/A 12.	Registration
<u> </u>	Maps, Plans, Sketches
N/A14.	Photographs/Siides
15.	Other (describe)
	uired Checklist is omitted, explain:

GENERATORS CHECKLIST

	ion A - Notification and Waste Determination (335.6, .62, .63)	* *
ı.	Has generator completed an appropriate hazardous waste determination for each solid waste produced?	YES NO_
2.	Check the method used for determination:	
	 a. Listed as a hazardous waste in 40 CFR Part 261, Subpart D. b. Process or materials knowledge. c. Tested for characteristics as identified in 40 CFR Part 261, Subpart C (If equivalent test method is used, attach a copy). 	:
NOI	E: If a hazardous determination has not been made or appears to be incorrecting inspector should obtain a sample of the waste for analysis and explain in	
3.	Has the facility received an EPA ID number? N/A	YES VNO
4.	Is notification of waste streams generated correct?	YESNO
5.	Do <u>all</u> waste management (TSD) methods in use agree with Registration?	YES NO V
6-	Does this facility generate, treat, store, or dispose of PCB wastes? YES	NO
7.	Does this facility generate used oils? If yes, describe storage and disposition:	NO
8.	Exes this facility generate Spent solvents ? If yes, describe storage and disposition:	_ NO
9.	Does this facility utilize sumps in the management YES	NO V
	of hazardous waste? If yes, describe use:	

^{***} An entry in this column indicates corrective action/response is needed

Sec	tion 8 - Special Conditions (335.75)	
1.	If generator has received from or transported to a foreign entity any hazardous waste, has the appropriate notice been filed with the EPA Regional Administrator?	N/A VYES NO
2.	Was the waste manifested and signed by the foreign consignee?	N/A YES NO
٦.	Has confirmation of waste transport out of the country been received by the generator?	N/A YES NO
Sec	tion C - Recordkeeping and Reporting (335.9, .10, .13, .70-71)	
١.	Does the generator maintain the following records and reports (if applicable) for the necessary three years?	
	 a. Shipping Manifests b. Monthly off-site shipment summaries c. Monthly on-site land disposal summaries d. Tests and analyses e. Annual reports 	N/A YES NO
?.	Has generator submitted exception reports to TWC for any original (white) copies of manifests not received back?	N/A YES NO
³•	Have any spills, unauthorized discharges or threats of such discharges occurred?	YESNO
	If ves, have they been reported?/335.4, .453).	N/A YES NO
	Have they been remedied?(335.453) Explain.	N/A YES NO
	+++ IF GENERATOR DISPOSES OF WASTES ON-SITE ONLY, WRITE N/A	IN SECTION D+++
<u>gen</u>	tion D - Pretransport and Manifest Requirements (335.61-68)	
۱.	Identify primary off-site disposal facilities:	1
	Chemical Waste Mquagement-	-Carlyss
	Louislana	
າ•	Are off-site disposal facilities permitted or operating under interim status standards?	N/A YES L NO.
٦.	Are TWO manifests properly completed?	N/A YES No

++++ STOP & SIGN HERE IF FACILITY QUALIFIES AS A SMALL QUANTITY GENERATOR +++>

Signed:

Section P - (Continued)

4. Po containers used to hold waste(s) meet DOT packaging requirements (49 CFR Parts 173, 178, 179) before being offered for transport (if circumstances observed)?

N/ALYES_NO

5. Poes generator label and mark each package in accordance with 49 CFR Part 172 (if circumstances observed)?

J/A YES NO

6. Is each container of 110 dallons or less marked with the required hazardous waste warning label?

- N/A YES NO
- 7. Does generator placard off-site waste shipments in accordance with DOT regulations (49 CFR Part 172, Subpart F)? (if circumstances observed)

N/A YES NO

Section E - Accumulation Time Exemption (335.69)

Mote: A facility may accumulate and store hazardous wastes in containers or tanks for up to 90 days without a permit.

1. Is the beginning date of Accumulation Time clearly indicated on each container?

YES___NO_

2. Is each container or tank clearly labeled or marked with the words "Hazardous Waste"?

Note: Attach a Container Storage Area Checklist for each container storage area.

Note: Attach a Tanks Checklist for each tank or each group of similar tanks.

Note: If this is a T/S/D Facility, proceed to General Facilities Checklist.

COMMENTS SHEET

section A 15 The company's registration does not includ
a retention/equalization basin, studgedrying beds, earth
separator, concrete separator No. 1, concrete separato
NO.2 trickling filter towers concrete clarifier
NO.2 trickling filter towers concrete clarifier, lagaons disposal pits and mounds and a sludge decent
Lagarine de la lagrantique de
tank as an-site marte management facilities.
Calabian
Section /
Section/

Section/

GENERAL FACILITIES CHECKLIST

section A - General Site Information

- 1. Are any solid waste facilities located in the 100-year floodplain? YES NO If yes, explain.
- Describe land use within one mile reside tial judustial and
- Are there any closed or abandoned solid waste facilities ? If yes, explain.
 - NO YES
- disposal facilities been provided to the agency? If no, explain.

Has proof of deed recordation of all on-site solid waste

- YES /
- 5. Are all non-RCRA solid waste facilities compliant with the general prohibitions contained in TAC 335.4? If no, explain.
- 6. An up-to-date Plant Map showing site orientation, waste management facilities, and major topographic features should be attached. Each facility checklist should have a Facility Map or Sketch attached.
- +++ Note: For all non-RCRA facilities, do not complete the remainder of this General +++ Facilities Checklist. Proceed to the individual facility checklists.

Section B - Personnel Training (335.117)

- 1. Owner/operator maintains proper personnel training records at the facility.

- Personnel training records include:
 - a. Job title and written job description of each position.
- YES NO

b. Description of type and amount of training.

YES YES Ю

c. Records of training given to facility personnel.

- YES
- 3. Personnel training records are maintained for the appropriate length of time.
- YES
- Training program is adequate for response to emergencies.

NO

NO

^{***} An entry in this column indicates corrective action/response is needed.

Section C - Preparedness and Prevention (335.131-137)

•	Describe any evidence of fire, explosion,	or	contamination	of	the
	environment in the comments sheet.				

Facility is equipped with	ith:	with	pped	equip	ÍS	itv	Facil	2.
---	------	------	------	-------	----	-----	-------	----

Internal communication or alarm system within easy access.

YES V NO

b. Telephone or two-way radio to call emergency response personnel.

 c. Portable fire extinguishers, fire control equipment, spill control equipment and decontamination equipment are tested regularly to assure proper operation.

d. Available water supply volume and pressure are adequate for hoses, sprinklers or water spray system.

YES V NO

3. Aisle space is sufficient to allow unobstructed movement of personnel and equipment.

YES NO

4. Owner/operator has attempted to make arrangements with the local response authorities to familiarize them with the layout of the facility, properties of hazardous wastes handled and associated hazards, work locations of facility personnel, entrances to facility roads and possible evacuation routes.

YES NO L

5. In the event that more than one law enforcement or fire department might respond, a primary authority has been designated.

YES NO

6. Owner/operatorhas attempted to reach agreements with State emergency response teams, emergency response contractors and equipment suppliers.

NO YES

Owner/operator has attempted to make arrangements with local hospitals to familiarize them with the properties of the hazardous wastes handled and the types of injuries that could result from fires, explosions or releases from the facility.

YES NO

8. State or local authorities have entered into the necessary arrangements.

YES

Section D - Contingency Plan and Emergency Procedures (335.151 - .157)

A contingency plan is maintained at the facility.

N/A YES V NO

- 2. The contingency plan is: a revised SPCC plan
 - b. a separate document
 - adequate to meet emergency procedures requirements.

Emergency coordinator is on site or on call at all times.

STOP HERE IF FACILITY ACCUMULATES WASTE ON SITE FOR LESS THAN 90 DAYS

Sec	tion	E - Waste Analysis (335.114)	_
	Pac	ility has a waste analysis plan.	N/A YES NO
2.	Wast	te analysis plan is maintained at the facility.	N/AYES_NO_
3.	Was	te analysis plan includes the following:	·
	a.	Parameters for which each waste will be analyzed.	N/AYES_V_NO
	ь.	Test methods used to test for these parameters.	N/AYES/NO
	c.	Sampling method used to obtain sample.	N/AYESNO
	đ.	Prequency with which the initial analysis will be reviewed or repeated.	N/AYESNO/
	Not	e: Frequency includes the requirement to repeat analysis whenever waste stream or process is changed.	
	e.	Waste analyses that generators have agreed to provide.	N/A YES NO
_	f.	For off-site disposal facilities, the procedures which are used to inspect and analyze each movement of hazardous waste, including:	
		 Procedures to be used to determine the identity of each movement of waste. 	N/A VYES NO
		2) Sampling method to be used to obtain a representative sample of the waste to be identified.	N/A V YES NO
Sec	tion	F - Security (335.115)	
ı.		facility provides adequate security.	N/AYESINO
	a,	24-hour surveillance system, OR	
	b.	Artificial and/or natural barrier around facility, AND	
		Describe:	
	c.	Means to control access through entrances.	
		Describe:	
	Fac Per	cility has a sign with the legend "Danger - Unauthorized sonnel Keep Out". "Danger-Private Property"	N/AYESNO
		in the state of	

Section G - General Inspection Requirements (335.116)

- 1. Fility has a written inspection plan and schedule.
- 2. Inspection plan is maintained at the facility.
- 3. Plan and schedule provide for the inspection of the following:
 - a. Monitoring equipment
 - b. Safety and emergency equipment
 - c. Security devices
 - d. Operating and structural equipment.
- 4. Schedule or plan identifies the types of problems to be looked for during the inspection.
 - a. Malfunction and deterioration
 - b. Operator error
 - c. Discharge or threat of discharge
- 5. owner/operator maintains an inspection log which includes:
 - a. Date and time of inspection
 - b. Name of inspector
 - c. Notation of observations
 - d. Date and nature of repairs and remedial action.
- 5. Malfunctions or other deficiencies noted in the inspection log have been rectified.
- 1. Inspection log records are maintained for three years.

N/A	_ YES	NO_ <u>V</u> _
		NO
		T
N/A	YES_	NO
N/A	YES	NO
N/A	YES	NO
	_ YES	
		- 1
N/A	YES	NO
N/A_	_ YES	NO
N/A	_YES	_ Nd
N/A_	YES	_ 140
N/A	_ YES	_ NO
N/A	YES_	NO
N/A_	YES	_ NO
N/A	YES_	NO
		- 1
N/A	_ YES	ON

N/A YES

•		•
ec	ction H - Requirements for Ignitable, Reactive or Incompatible N	Wastes (335.118) ***
. •	er/operator is familiar with the proper separation and safeguards needed to prevent ignition or reaction of wastes.	N/AL YES NO
	a. Use comments sheet to describe separation and confinement	procedures.
	b. Use comments sheet to describe any potential sources of ign	nition or reaction.
!.	Smoking and open flame are confined to specifically designated smoking areas.	N/A VYES NO
8.	"No Smoking" signs are posted in hazardous areas.	N/A 1/YES_NO_
<u>:ec</u>	ction I - Manifest System, Recordkeeping and Reporting (335.171	, , , , , , , , , , , , , , , , , , ,
٠•	Owner/operator complies with the manifest requirements.	N/A YES NO
	Note: If 11 is not applicable (N/A), go to 16.	,
!.	Waste received from a rail or water (bulk shipment) transporte are accompanied by a properly executed shipping paper.	er N/A YES NO
}.	All shipments of wastes received have been consistent the manifests.	N/A VYES NO
١.	unmanifested wastes are reported to the Executive Director.	N/A YES NO
;.	Discrepancies have been reconciled with the generator and transporter.	N/A 1/YES NO
i,	Owner/operator keeps a written operating record at the facility	ty. N/A YES NO
٠.	Operating record reflects the following:	·
	a. Description and quantity of each hazardous waste received and methods and date of treatment/storage/disposal at the facility.	N/A YES NO V
	b. Location and quantity of each hazardous waste within the facility.	N/A YES NO L
	c. Records and results of waste analyses and trial tests.	N/A YES / NO
	d. Summary reports of all incidents that require inplementation of the emergency contingency plan.	ion N/A / YES NO
	e. Closure cost estimates for all facilities.	N/AYES/NO
	f Post-closure cost estimates for all disposal facilities.	N/A VES NO

<u>.</u>	ion J - Financial Assurance (335,233)	***
1.	Preinspection call to Central Office confirms that facility has submitted current financial assurance documentation. N/AY	ES MÓL
2.	If yes, indicate the documents submitted and their respective values:	DND
	NØ Sudden Liability - Amount: \$ per occurance, \$	nnral.
	NO Non-sudden Liability - Amount: \$ per occurance, \$	annual.
	Closure Assurance - Amount: \$6000000	
	Nost Closure Assurance - Amount: \$	
	NIA Corrective Action - Amount: \$	
3.	Financial Assurance Officer reports that documentation is adequate. N/AN	res No
	If no, describe deficiencies:	
	- insurance or post closure assurance	ty
	- insurance or part closure assurance	
		<u></u>

	TWC Reg. No.31372
TWC Solid Waste Inspection Report	Reg. Facility NO
Surface Impoundment Checklist	
Inactive Undergoing RCFA clas	class of Waste (H)
Use of Impoundment (check): Treatment Storage Disposal_	<u>.</u>
Type of Waste: Creosate wastemater trea-	tment sludge
Type of Liner: NUNE	_
Is there a Leachate Collection and removal system? YES	NO
Does owner/operator intend to "clean close" the impoundment at Clo (i.e., remove all hazardous liquids and sludges) the operate.	sure? YES NO NO NOT KNOW WHO I USCHE IS FEWILLE.
A. General Operating Requirements and Containment System	. ** *
1. Is there at least 2 ft. (60 cm) of freeboard?	YES NONO
2. Is there evidence of overtopping of the dikes?	NO VYES
3. Is there evidence of dike seepage, erosion or instability?	NO YES
1. Do earthern dikes have protective cover to minimize erosion?	N/A YES NO
R. Waste Analysis and Trial Tests	`
1. Is the impoundment used to treat or store <u>different</u> wastes?	YESNO
If Yes: a. Are waste analyses and trial treatment or storage tests done on these different wastes? or Is there written, documented information on similar treatment or storage of similar wastes?	N/A YES NO
b. Are records available of these waste analyses in the operating record?	N/A YES NO
C. Inspections	
1. Is the impoundment freeboard inspected daily?	YES NO
2. Is the impoundment, dike and surrounding vegetation inspected	weekly

*** An entry in this column indicates corrective action/response is needed $$\operatorname{\textbf{Page}}\ 1$$ of 2

for leaks, deterioration or failures?

94/86

YES NO_

D. Special Requirements		
1. Are ignitable or reactive wastes placed in the impoundment?	YES	NO
Tf Yes:		444
a. Are they rendered non-iqnitable or non-reactive	_	
b. Protected from sources of ignition or reaction?	N/A	YES NO
NOTE: N/A if impoundment is used solely for emergencies.		•
?. Is the impoundment is used to hold incompatible wastes?	YES	NO
If Yes, are they handled in accordance with 40CFR 265.17?	N/AL	YESNO
(i.e., so as to prevent violent reactions, toxic or flammable damage to the impoundment, or threat to humans or the environ		
E. Ground Water Monitoring		
1. Does the impoundment have a RCRA groundwater monitoring system?	N/A	YES NO
F. HSWA Requirements		
1. Is the impoundment a "new unit",		
a replacement of an existing unit,	YES	110.
or a lateral expansion of an existing unit?	165	NO
If Ves:		
a. Has impoundment received haz. waste since May 1985? N/A	_Yes	NO
h. Does the impoundment have two or more liners and a leachate collection system between such liners? N/A	YES_	NO
canacity & nimensions: Unknown - The impoundmented of all visual court amination	+ ho	s he cu
emptied of all visual court ammater	2~	
Compositor		
Comments:		
		
·		· · · · · · · · · · · · · · · · · · ·
		

^{*} A surface impoundment that first received hazardous waste after Nov. 8, 1984.

TWC Solid Waste Inspection Report

Reg. Facility NO. 1990h.

Surface Impoundment Checklist

Pre-ECRA LASOUNS

Class of Waste (NH)

Use of Impoundment (check): Treatment Storage Disposal	
Type of Waste: Cheusott Diodye	
Type of Liner: NONE	
Is there a Leachate Collection and removal system? YESNO	•
Does owner/operator intend to "clean close" the impoundment at Closure? (i.e., remove all hazardous liquids and sludges)	YES NO
A. General Operating Requirements and Containment System	***
1. Is there at least 2 ft. (60 cm) of freeboard?	YESNO
2. Is there evidence of overtopping of the dikes?	NO LYES
3. Is there evidence of dike seepage, erosion or instability?	NO_YES
4. Do earthern dikes have protective cover to minimize erosion? N/A	YESNO
B. Waste Analysis and Trial Tests	
1. Is the impoundment used to treat or store <u>different</u> wastes? YES	NO
If Yes:	
a. Are waste analyses and trial treatment or storage tests done on these different wastes?	
or Is there written, documented information	
on similar treatment or storage of similar wastes? N/A	YESNO
b. Are records available of these	/
waste analyses in the operating record? N/A	YESNO
C. Inspections	
1. Is the impoundment freeboard inspected daily?	YES_ NO_
 Is the impoundment freeboard inspected <u>daily</u>? Is the impoundment, dike and surrounding vegetation inspected <u>weekly</u> for leaks, deterioration or failures? 	YESNO

^{***} An entry in this column indicates corrective action/response is needed Page 1 of 2

D. Special Requirements	
1. Are ignitable or reactive wastes placed in the impoundment?	YES_ NO_L
If Ves: a. Are they rendered non-ignitable or non-reactive	
h. Protected from sources of ignition or reaction?	N/A YES
NOTE: N/A if impoundment is used solely for emergencies.	
?. Ts the impoundment is used to hold incompatible wastes?	YESNO
If Yes, are they handled in accordance with 40CFR 265.17?	N/A YES
(i.e., so as to prevent violent reactions, toxic or flammable damage to the impoundment, or threat to humans or the environ	
E. Ground Water Monitoring	
1. Does the impoundment have a RCRA groundwater monitoring system?	N/A YES_
F. HSWA Requirements	
<pre>1. Ts the impoundment a "new unit"*, a replacement of an existing unit, or a lateral expansion of an existing unit?</pre>	YESNO
If Ves:	
a. Has impoundment received haz. waste since May 1985? N/A_	YES NO
b. Does the impoundment have two or more liners and a leachate collection system between such liners? N/A	YES NO
Capacity & Dimensions: See diagram	·
Comments: PRE-RCRA laguous in the pro-	ucess of
being closed	·····
	

^{*} A surface impoundment that <u>first</u> received hazardous waste after Nov. 8, 1984.

INDUSTRIAL SOLID WASTE

Compliance Monitoring Inspection Report

	Compliance Monitoring Inspection Rep Landfills Checklist (Rule 335.341	ort (48) C1	ass of Wa	iste (<u>NH</u>)

1.	Is run-on diverted from the landfill? (Effective November 19, 1981)		Yes	No
2.	Is run-off from the landfill collected? (Effective November 19, 1981)		Yes_·	No <u>~</u>
	a. Is this waste analyzed to determine if it is a hazardous waste?	N/A	~ Yes	No
	(1) If it is a hazardous waste, how is it managed? (Use narrative explanations sheet)			
	(2) Is the collected run-off discharged through a point source to surface waters?	Yes	No	
	(a) If Yes, list WQ Permit Number			
⁺3.	Is the landfill managed so that wind dispersal is controlled? (Note: blowing debris)		Yes	No
4.	Do records indicate that reactive or ignitable wastes are placed in the landfill?	Yes	No V	
	a. If Yes, is it treated, rendered or mixed before or immediately after placement in the landfill so it is no longer reactive or ignitable?	N/A	Yes	No
	b. Describe treatment, etc., or attach a copy of trea			
5.	Do records indicate that incompatible wastes are place in separate landfills?	d N/A L	Yes	No
6.	Do records indicate that bulk or non-containerized liq	uid		
	wastes or wastes containing free liquids are placed in the landfill? (Effective November 19, 1981)	Yes	No	
	a. If Yes, is the liquid waste treated chemically or physically, so no free liquids are present?	N/A <u>/</u>	Yes	No
7.	Do records indicate that containers holding liquid wastes are placed in the landfill?	Yes	No <u>✓</u>	
	a. If Yes, is the container designed to hold liquids for a use other than storage? (e.g. battery, capac (Effective November 19, 1981)	itor)	Yes	No
WR-			—	

Page 1 of 30 of Group II

*(Changed 9/10/82, added *** note and response columns realigned)

**Note checklist questions to be noted or completed during on-site inspection

***No in this response column indicates noncompliance; yes indicates use of

questionable management practice(s).

	A 11	ner?	Yes	No 1
b.	If Y	es, what type?		
c.	For	each landfill indicate active or inactive sta	itus	
d.	A 1e	achate collection and removal system?	Yes	No.
	(1)	If Yes, has leachate generation been detected?	Yes	No
	(2)	If Yes, provide volumes and dates that leach		been remo
	(3)	How is leachate disposed?		
		ds indicate that empty containers are placed andfill?	Yes	
a.		es, are they reduced in volume (e.g. shredded hed)? (Effective November 19, 1981)	i,	Yes
	there ttling	<pre>evidence of site instability? (e.g. erosion,)?</pre>	•	No <u>I</u>
Is	there	evidence of ponding of water on-site?		No 1
	there ainage	any indication of improper or inadequate?		No
		tor wells required for this site? (Refer to .191195 - Ground Water Monitoring)	Yes	No
Rul				
	main:	es, has owner/operator installed, operated an tained a ground water monitoring system (unle to 11/19/81? Date		d) Yes

TDWRPage 2 of 30 of Group II
*(Changed 9/10/82, added *** note and columns realigned)
**See Note on Page 1

INDUSTRIAL SOLID WASTE

*Closure and Post-Closure Compliance Review Checklist

			<u></u>	AC Section 335. VOCLO	15URE	PLF	1/	# *
Note:			ach type of hazar mnents sheet.	-				luae in
1.	CLO	SURE	PLAN; Is there a	written plan?			Yes	No_L
	1.	OPE	s the plan identi	be unclosed du			Var	No
		111	e of the facility	:			Yes	No
	*No	te:	the maximum exte the life of the extent of operat important to con question.	nt of the opera facility. If t ions to be clos	tion which he plan is ed just pri	will be based on or to cl	unclosed the exp osure, i	during ected t is
	2.	COM	s the plan identi PLETE CLOSURE [33 ended operating I	5.213(a)], at a			•	
		à.	surface impoundm	ents?		N/A	Yes	No
		b.	landfills?			11/A	Yes	No.
		c.	tanks?			N/A	Yes	No
		đ.	other (specify:)		Yes	No
	3.	of :	there an estimate wastes in storage ing the life of t	or treatment a		N/A	Yes	No
	4.		s the plan clearl SE [335.213(a)]?	y identify the	SIEPS TO			
		a.	at any point dur operating life?	ing the intende	d		Yes	No
		ъ.	at the end of th life?	e intended oper	ating		Yes	No

Page 24 of 30 of Group II
*(Changed 10/13/83, added question to I above; this checklist is for use with
"Part A" permit applicants that have not submitted "Part B" application) **This response column indicates noncompliance.

Figs 15 of 30 of Group 11 to Iranged 10/13/83, added checklist question ho. 10/ **This response column indicates noncompliance.

POS pTa	T-CLOSURE PLAN CHECKLIST: Is there a written n?	*N/A	Yes	kii 🗸
440	ite: If no post-closure required, proceed to Cost Estimate Checklist.			
1.	Does the post-closure plan provide for 30 years of post-closure care?	N/A	Yes	lin
	How many years of post-closure care?			
7.	Does the plan clearly identify the ACTIVITIES required in the post-closure care?		Yes	No
3.	Do the MAINTENANCE PLANS for waste containment structures [335.218(a)(2)] include:			
	 maintaining final cover (erosion damage repair) frequencies [335.344(d)(1)]? 		Yes	No
	b. vegetation and fertilizing frequencies [335.218(a)(2)(A)]?		Yes	No
	c. collecting, removing, and treating leachat activities [335.344(d)(2)]?	e N/A	Yes	Но
	d. collecting, removing, and treating leachat frequencies [335.344(d)(2)]?	N/A	Yes	No
	e. gas collection activities [335.344(d)(3)]?	N/A	Yes	No
	<pre>f. gas collection frequencies [335.344(d)(3)]?</pre>	R/A	Yes	No
4.	Do MONITORING EQUIPMENT MAINTENANCE plans [335.210(a)(2)(B)] include:			
	a. activities?		Yes	90
	b. frequencies?		Yes	Ho
5.	Does the plan identify the name, address and phone number of the POST-CLOSURE PERIOD CONTACT [335.218(a)(3)]?	:1	Yes	llo

11.

Page 27 of 30 of Group II
*(Changed 10/13/82; added checklist for use with "Part A" permit applicants
that have not submitted "Part B" application)
**This response column indicates noncompliance.

1 DWR -

Page 28 of 30 of Group II

^{*(}Changed 9/30/82, added checklist for use with "Part A" permit applicants that have not submitted "Part B" application)
**This response column indicates noncompliance.

_				
f.	Geological and soil profiles and subsurface hydrology.	H/A	Yes	lio
g.	Unsaturated zone monitoring.	N/A	Yes	No.
ħ.	Type, concentration, and depth of hazardous constituent algoration as compared to background concentrations.	N/A	Yes	No
y.	Does the plan address the requirement for notice to the local land authority (335.219)?		Yes	No
10,	Does the plan address the requirement for notice in the deed (335.220)?		Yes	llo
11.	Post closure plan evaluated 5-5-86 Adequate	!	Yes	No. L.
CON	MENTS		•	
k	efection equalization basis	A	d the	sludge
	to be RCRA regulated land	e a e I disp	terr paral	nwed facilities
	to be RCRA regulated land	disp	terr	nwed facilities
	to be RCRA regulated land	disp	terr casal	nwed. facilities
	to be RCRA regulated land	disp	ter,	nwed. facilities
	to be RCRA regulated land	disp	terr	nwed. facilities
	to be RCBA regulated land	-e ae I disp	terr	mwed. Facilities
	to be RCRA regulated land	- e a e	terr	mwed. facilities
	to be RCRA regulated land	- e a e	terr	mwed. facilities
	to be RCRA regulated land	-e ae I disp	terr	mwed. facilities
	to be RCRA regulated land	-e qe	ter,	mwed. facilities

TOWR-

Page 29 of 30 of Group II
"(Changed 10/13/83; added checklist for use with "Part A" permit applicants that have not submitted "Part U" application)

111.	cos	ST ESTIMATE; Evaluated: 5-5-66 date	N/A	Yes 🗸	No :
	1.	Is there a written closure cost estimate [335. (Supp. 14 of Group I for estimated cost?	232(a)]	Yes	No
	2.	Is the closure cost estimate adequate to cover required closure activities [335.232(a)]?	all	Yes	Ro L
		If "No", specify in comments.			
	3.	Is there a written post-closure cost estimate [335.233(a)]?	N/A	Yes	No.
	4.	Is the annual estimate multiplied by 30 to cover the entire post-closure care period [335.233(b)]?	A_V	Yes per of ye	No
	5.	Is the cost estimate adequate to cover all the in the post-closure plan [335.218(a)]?	ı	•	
		Including labor costs?		Yes	fio
		As well as the requirements of notice	1.		

COMMENTS

(335.219 and .220)?

The closure cost estimate dues not include the closure of the retentien/equalization barin and the sludge drying beds.

The company has not developed a matter past closure cost estimate. This only applies if the units are determined to RCRA regulated land disposal facilities

TDWRPage 30 of 30 of Group II
*(Changed 10/13/83, added checklist for use with "Part A" permit applicants that have not submitted "Part B" application)

ATTACHMENT NO. 5
EPA PART A PERMIT APPLICATION

III. SIC CODES (4-digit, in order of priority)				
			S. SECOND	
2,4,9,1 (specify)		· (a)	ecify)	
Wood Preserving		10 10	N/A B. FOURTH	
(specify)			ecify)	· · · · · · · · · · · · · · · · · · ·
N/A	•	<u> </u>	N/A	Ŷ,
OPERATOR INFORMATION		45 16 · 19	11/A	
in orangement in animality	A, NAME			B. is the name listed in
				ftem Vili-A also the owner?
W.J.Smith Wood	Preservi	ng Com	pany,	YES INO
				16 64
C. STATUS OF OPERATOR (Enter the ap)		box; if "Other", sp		ONE (area code & no.)
F = FEDERAL M = PUBLIC (other than S = STATE 0 = OTHER (exectly)	federal or state)	ecify)	Ā 21 4	4 65 6 1 6 1
# - PRIVATE				
E. STREET C	R P.O. SOX			
.7.0.0 Morton Str				engalan di Araban (1992). Araban di Araban (1992) di Araban di Arab
F. CITY OR TOU	r M	G.STATE H	EIP CODE IX. INDIAN LA	
Denison		T X 7	5 0 2 0	ocated on Indian lands?
		40 41 42 42		- HO
EXISTING ENVIRONMENTAL PERMITS	· · · · · · · · · · · · · · · · · · ·		- #1	
A. HPDES (Discharges to Surface Water)	D. PSD (Air Emissions)	from Proposed Sour	ces)	
	271			
N .	9 P			
B. UIC (Underground Injection of Fluids)	2. OTHER	(apect()y)		
		1 1 1 1 1	(specify)	
	29.6		Téxas Air Co	ontrol Board
.2			1	
C. NCHA (Hazardous Wastes)	E. OTHER	(specify)		
	E. OTHER	(specify)	(specify)	name of the control o
		(spectfy)	7 8 (specify) City of Denis	name of the control o
. mAP Attach to this application a topographic ma	p of the area extending to	d 6 / 28 /	City of Denis	es. The map must show
Attach to this application a topographic mathematical formula of the facility, the location of treatment, storage, or disposal facilities, and	p of the area extending to each of its existing and produced each well where it inject	at least one mile oposed intake and ts fluids undergro	City of Denis	es. The map must show
Attach to this application a topographic mathe outline of the facility, the location of treatment, storage, or disposal facilities, an water bodies in the map area. See instruction	p of the area extending to each of its existing and produced well where it injects for precise requirements	at least one mile oposed intake and ts fluids undergro	City of Denis	es. The map must show n of its hazardous waste rivers and other surface
Attach to this application a topographic mathematic storage, or disposal facilities, an water bodies in the map area. See instruction	p of the area extending to each of its existing and produced each well where it injects for precise requirements ription. er ving business. Based into finished form	at less one mile oposed intake and ts fluids underground in take and ts fluids underground is such as cross	beyond property bounder discharge structures, each and. Include all springs,	es. The map must show of its hazardous waste rivers and other surface F9: A/so
Attach to this application a topographic mathe outline of the facility, the location of creatment, storage, or disposal facilities, an water bodies in the map area. See instruction it. NATURE OF BUSINESS (provide a brief described). J. Smith is in the wood presents air dried. The wood is trimmed	p of the area extending to each of its existing and produced each well where it injects for precise requirements ription. er ving business. Based into finished form	at less one mile oposed intake and ts fluids underground in take and ts fluids underground is such as cross	beyond property bounder discharge structures, each and. Include all springs,	es. The map must show of its hazardous wasterivers and other surface F9: A/50
Attach to this application a topographic mathe outline of the facility, the location of creatment, storage, or disposal facilities, an water bodies in the map area. See instruction it. NATURE OF BUSINESS (provide a brief described). J. Smith is in the wood presents air dried. The wood is trimmed	p of the area extending to each of its existing and produced each well where it injects for precise requirements ription. er ving business. Based into finished form	at less one mile oposed intake and ts fluids underground in take and ts fluids underground is such as cross	beyond property bounder discharge structures, each and. Include all springs,	es. The map must show of its hazardous wasterivers and other surface F9: A/50
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Attach to this application a topographic mathe outline of the facility, the location of treatment, storage, or disposal facilities, an water bodies in the map area. See instruction II. NATURE OF BUSINESS (provide a brief described). W. J. Smith is in the wood press is air dried. The wood is trimmed is injected into the wood in close is injected.	p of the area extending to each of its existing and produced well where it injects for precise requirements ription. The product of the area extending to each well where it injects are the precise requirements ription. The product of the area extending to each well where it injects are the precise requirements are the precise requirements. Based into finished form and precise the pressure cylinders are the pressure and compared to the pressure a	at least one mile oposed intake and to fluids underground it cally wood is such as cross	beyond property bounders discharge structures, each und. Include all springs, and purchased in semities or bridge timbe	es. The map must show to of its hazardous wasterivers and other surface F9: A/SO finished form, and rs. A preservative A/SI this application and all mation contained in the
Attach to this application a topographic mathe outline of the facility, the location of treatment, storage, or disposal facilities, an water bodies in the map area. See instruction III. NATURE OF BUSINESS (provide a brief described). W. J. Smith is in the wood pressis air dried. The wood is trimmed is injected into the wood in close in injected into the wood in close injected into the wood in close attachments and that, based on my inquitapplication, I believe that the information false information, including the possibility.	p of the area extending to each of its existing and produced well where it injects for precise requirements ription. The product of the area extending to each well where it injects are the precise requirements ription. The product of the area extending to each well where it injects are the precise requirements are the precise requirements. Based into finished form and precise the pressure cylinders are the pressure and compared to the pressure a	at less one mile oposed intake and ts fluids underground is such as cross such as cross and the familiar with the distely responsibilities. I am aware	beyond property bounders discharge structures, each und. Include all springs, and purchased in semities or bridge timbe	es. The map must show to of its hazardous wasterivers and other surface F9: A/SO finished form, and rs. A preservative A/SI this application and all mation contained in the
Attach to this application a topographic mathe outline of the facility, the location of treatment, storage, or disposal facilities, an water bodies in the map area. See instruction III. NATURE OF BUSINESS (provide a brief described). W. J. Smith is in the wood pressis air dried. The wood is trimmed is injected into the wood in close in injected into the wood in close injected into the wood in close attachments and that, based on my inquitapplication, I believe that the information false information, including the possibility.	p of the area extending to each of its existing and produced well where it injects for precise requirements ription. Er ving business. Based into finished formed pressure cylinders are of those persons immediative, accurate and composition and imprisonment. S. SIGNATU	at less one mile oposed intake and ts fluids underground is such as cross such as cros	beyond property boundered discharge structures, each und. Include all springs, a purchased in semities or bridge timber that there are significant	es. The map must show to of its hazardous waste rivers and other surface F9: A/SO finished form, and rs. A preservative A/S this application and all nation contained in the penalties for submitting
Attach to this application a topographic mathe outline of the facility, the location of treatment, storage, or disposal facilities, an water bodies in the map area. See instruction (II. MATURE OF BUSINESS (provide a brief desc.) W. J. Smith is in the wood press is air dried. The wood is trimmed is injected into the wood in close is injected into the wood in close in injected into the wood in close injected into the information in the information in the wood in close information, including the possibility of the wood in close information, including the possibility of the wood in close information, including the possibility of the wood in close information, including the possibility of the wood in close information, including the possibility of the wood in close information, including the possibility of the wood in close in the wood i	p of the area extending to each of its existing and produced well where it injects for precise requirements ription. Er ving business. Based into finished formed pressure cylinders are of those persons immediative, accurate and composition and imprisonment. S. SIGNATU	at less one mile oposed intake and ts fluids underground is such as cross such as cros	beyond property boundered discharge structures, each und. Include all springs, a purchased in semities or bridge timber that there are significant	es. The map must show to of its hazardous wasterivers and other surface F9: A/so finished form, and rs. A preservative this application and all mation contained in the penalties for submitting
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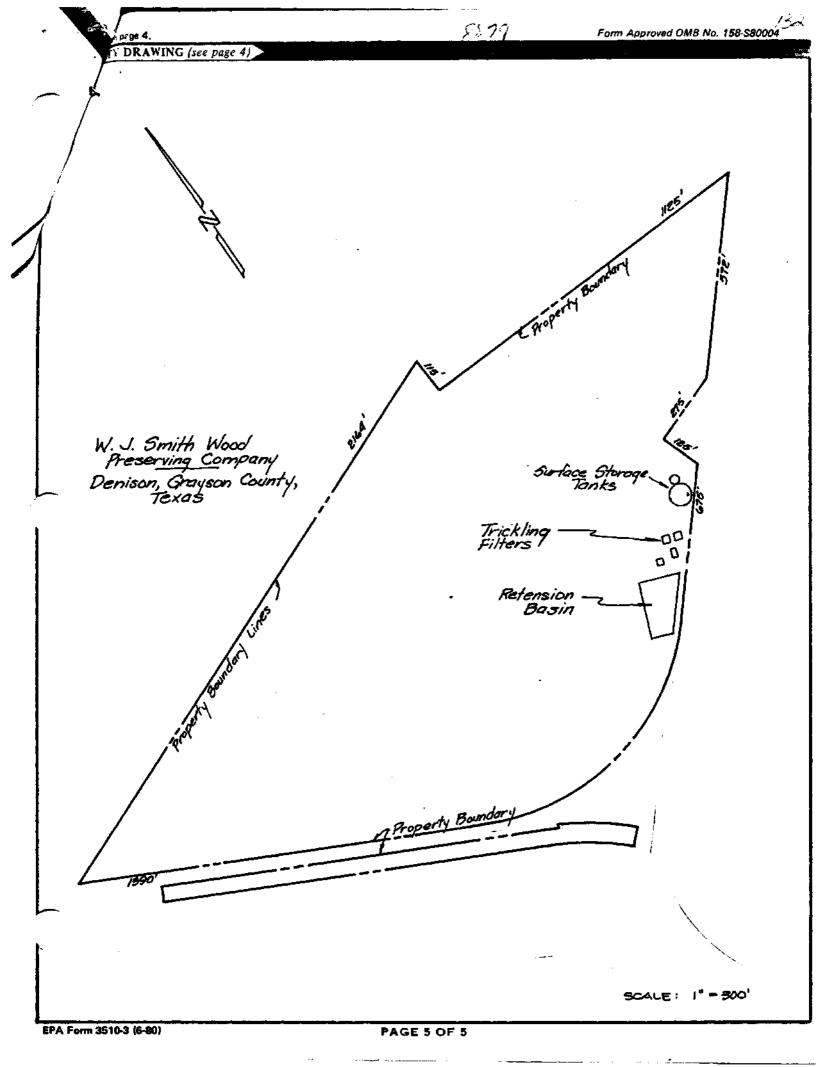
EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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EPA Form 3510-3 (6-80)

CIRTON TO TO SERVICE $\frac{7}{\sqrt{g}}$ this page before completing if you have more than 26 wastes to list. Form Approved OM8 No. 158-S80004 FOR OFFICIAL USE ONLY NUMBER (enter from page 1) W DUP DUP SCRIPTION OF HAZARDOUS WASTES (continued) C.UNIT OF MEA-SURE (enter code) A. EPA HAZARD. WASTENO (enter code) D. PROCESSES B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) **数** 27 P 2 S O 4 T 0 T O 1,000,000 ĸlo. 0 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 18 19 20 21 23 25 26 EPA Form 3510-3 (8-80) **CONTINUE ON REVERSE**

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IV. DESCRIPTION OF HAZARDOUS WASTES (co)	ntinued)					
E. USE THIS SPACE TO LIST ADDITIONAL PRO	CESS CODES FRO	M ITEM D(I) ON PAG	E 3.			
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EPA I.D. NO. (enter from page 1)						ŀ
FT X D 0 66 3 6 88 7 9 5 6						l
V. FACILITY DRAWING						
All existing facilities must include in the space provided on	page 5 a scale drawin	g of the facility <i>(see instruc</i>	tions for more	detail).		
VI. PHOTOGRAPHS	int or ground town	that alacely deliments	n1) avissima sa		vietina etoroa	
All existing facilities must include photographs (aeric treatment and disposal areas; and sites of future stor	age, treatment or	that clearly defineate a disposal areas (see instru	all existing sti ictions for mi	ore detail).	xisting storage,	. 1
VII. FACILITY GEOGRAPHIC LOCATION						-
LATITUDE (degrees, minutes, & seconds,)	Longi	TUDE (degrees	, minutes, &	seconds)	
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VIII. FACILITY OWNER						9.1
A. If the facility owner is also the facility operator as I skip to Section IX below.	isted in Section VIII	on Form 1, "General Infor	mation", place	an "X" in t	he box to the left ar	nd
B. If the facility owner is not the facility operator as in	sted in Section VIII a	on Form 1, complete the fo	okowino items:			
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3. STREET OR P.O. BOX		4. CITY OR TOWN	<u> </u>	5. ST.	6. ZIP CODE	
F	G			41. 42		į
IX. OWNER CERTIFICATION						
I certify under penalty of law that I have personally documents, and that based on my inquiry of those in						. 1
submitted information is true, accurate, and complete						
including the possibility of fine and imprisonment. A. NAME (print or type)	B. SIGNATURE			~~~~	Iguen	
A. AAME (print or type)				C. DATE S		1
Mr. Clarence C. Fehr	Clar	ince C.Felis	<u>ر</u>	Novemb	er 14, 1980	
X, OPERATOR CERTIFICATION				•		
I certify under penalty of law that I have personally documents, and that based on my inquiry of those in						.
submitted information is true, accurate, and complete						,
including the possibility of fine and imprisonment.		·-···				
A. NAME (print or type)	B, SIGNATURE			C. DATE S	IGNED	I
						i
PA Form 3510-3 (6-80)	PACE	4 OF 5			CONTINUE ON	PAGE 5



ATTACHMENT NO. 6
"BEST FAITH EFFORT"

DALLAS + FT. WORTH

November 7, 1985 AVO 7964 8816 NORTHWEST PLAZA DRIVE DALLAS. TEXAS 75225 214/739-0094₁

Texas Water Commission P.O. Box 13087 Capitol Station Austin, Texas 78711

Re: Efforts of W. J. Smith Wood Preserving Co., Denison, Texas to Obtain Environmental Impairment <u>Liability Insurance</u>

Gent lemen:

ALBERT H. HALFF, CHAIRMAN OF BOARD

RAUL WONG, JR., SENIOR VICE PRESIDENT

MICHAEL K. KOESLING, VICE PRESIDENT

TROY LYNN LOVELL, VICE PRESIDENT.

JOSE I. NOVOA, PRESIDENT

GEORGE PRALL, JR. JEFFREY H. JACOB DAVID S. MORGAN

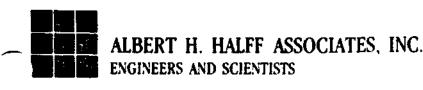
DON O. BROCK, VICE PRESIDENT

WALTER E. SKIPWITH, SECRETARY

We have acted as environmental consultants for W. J. Smith Wood Preserving Co. and have closely followed their efforts to obtain sudden and non-sudden environmental impairment liability insurance.

Despite all efforts to obtain sudden and non-sudden environmental impairment liability ("EIL") insurance prior to November 7, 1985, W. J. Smith Wood Preserving Co. ("the Company) has been unable to obtain such coverage. Pursuant to the April 12, 1985 memorandum from the U. S. Environmental Protection Agency ("EPA") entitled "Enforcement Guidance for a Constrained Insurance Market", this letter is submitted to document the good faith efforts made by the Company to obtain the insurance coverage required by the applicable regulations of the Texas Water Commission ("TWC").

The Company is a wholly-owned subsidiary of Katy Industries, Inc. ("Katy"). In September 1984, the Risk Management Department of Katy and appropriate Company representatives began attempting to obtain EIL insurance coverage. A copy of a letter dated September 7, 1984, from Corroon & Black of Illinois, Inc. to Katy is attached hereto as Exhibit A. That letter and the application form were forwarded to the Company by Katy on September 11, 1984 (Exhibit B). The application was forwarded to the Company's environmental consultants, Albert H. Halff Associates, Inc. ("Halff"), Dallas, Texas, on September 17, 1984 (Exhibit C). It was completed and returned to Katy on October 9, 1984 (Exhibit D). A copy of the completed application, dated October 9, 1984, to Shand, Morahan & Company, Inc. ("Shand, Morahan") is attached as Exhibit E. Apparent favorable consideration was initially given by Shand, Morahan. On November 7, 1984, Raty forwarded a letter from Corroon & Black (Exhibit F) which indicated that an inspection report by a qualified engineering firm was needed, but that Shand, Morahan would write the insurance. The risk manager for Katy, Mr. Verne Andrews, had previously written Mr. B. L. Redding, President of the Company, on October 26, 1984, urging the scheduling of an environmental assessment by one of the acceptable consultants (Exhibit G). Despite the



Texas Water Commission November 7, 1985 Page 2

favorable correspondence, however, Shand, Morahan continued to vacillate about writing the coverage. The reason became apparent in January 1985, when that company announced that it would not renew any EIL insurance policies whatsoever.

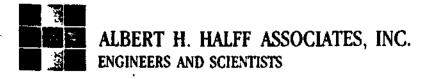
The market at that point (January 1985) had, for all intents and purposes, disappeared except for American International Group ("AIG") and its affiliated companies, including American International Companies ("AIC") and National Union Fire Insurance Company of Pittsburg, PA ("National Union"). The Company immediately began negotiations, through several qualified brokers, for coverage through one of the AIG companies. An initial quote and pre-issuance requirements were furnished by letter dated December 10, 1984 (Exhibit H).

It was apparent that an environmental risk assessment ("ERA") was essential. Therefore, the Company negotiated a contract with Pilko & Associates, Inc. ("Pilko"), Houston, Texas, to provide such a study. The on-site inspection was conducted on February 12, 1985. Pilko's report was not completed until May 1985. The Pilko report was immediately submitted to Texas Employers Insurance Association, a broker seeking to place the policy with National Union. Subsequently, on May 28, 1985, the completed National Union application was submitted for further consideration (Exhibit I). That application, along with the Pilko report, was submitted to AIC on June 3, 1985 (Exhibit J). The insurance broker advised the Company on June 6, 1985, that AIC was "the only game in town" and that the application was pending (Exhibit K).

No word was received from AIC until August 16, 1985, when the Company received a copy of AIC's August 6, 1985 letter (Exhibit L). That letter called for responses to five specific recommendations found in the Pilko report before further action could be taken on issuance of the policy. Of the five recommendations, two were estimated to require four to six months for completion and implementation. Those recommendations dealt with closure of an unlined oil/water separator pond and construction of a concrete replacement facility and testing of on-site electrical transformers for PCB content.

With regard to the closure of the unlined surface impoundment, numerous problems were encountered in trying to locate a waste disposal facility that could handle or accept partially-liquid wastes. For nearly two months, no such facility was in operation in a three state area (Texas, Louisiana, Oklahoma). Accordingly, this firm negotiated a plan with the TWC to allow

•



Texas Water Commission November 7, 1985 Page 3

actual removal and drying of the contaminated soils on or about October 30, 1985. Work is presently proceeding on that phase of the project as quickly as possible.

As for the testing of the electrical transformers for PCB content, despite diligent efforts, neither this firm nor the Company has, to date, located an electrical contractor willing or competent to conduct such tests. Efforts are continuing and we expect to complete that testing in the reasonably near future. The remaining recommendations in the Pilko report which require action by the Company will all be completed prior to the completion of the closure and replacement of the oil/water separator pond.

Ground water monitoring wells have already been installed at the plant site. The Company has provided a surety bond for \$60,000 for closure/post-closure expenses. The original bond and trust agreement were submitted effective June 12, 1984, and the bond has been renewed through June 12, 1986 (Exhibit M). The appropriate permit applications are being submitted to TWC for continued interim operations pending closure of the surface impoundments. In short, the Company has done everything reasonably possible to obtain EIL insurance coverage in a timely manner. The ERA called for certain modifications to the plant before the only available insurer will provide the coverage. At great expense, the Company is endeavoring, as quickly as possible, to make the required changes. As soon as they are completed, the Company expects to have the insurance issued. Despite the fact that the policy will not be in place on November 8, 1985, the Company should not be penalized, as it has truly made a good faith effort to obtain the insurance coverage.

rlease advise if any additional information or documentation is necessary or desired.

Yours very truly,

ALBERT H. HALFF ASSOCIATES, INC.

Patrick E. Jolly, P.E.

PEJ/mm

ATTACHMENT NO. 7
CORRESPONDENCE WITH INSURANCE COMPANIES



EXHIBIT___A___

CORROON & BLACK of Illinois, Inc. 135 South LaSalle Street • Chicago 60603 312-621-4940 Insurance Brokers • Consultants
TWX • 9102214199 • NOORROC CGO
Cable • ALEXANCO

J. THOMAS FREIDHEIM Vice Procedent

September 7, 1984

Mr. Verne A. Andrews, Risk Manager Katy Industries, Inc. 853 Dundee Avenue Elgin, Illinois 60120

Re: W. J. Smith Wood Preserving, Inc.

Dear Verne:

Atached is an application known as Form No. SM1410 which must be filled out for each location of the above division. Also, if they have filed any EPA forms in reference to this clean-up or their use in protection of that property they should be sent back with the completed applications.

This application is for Shand, Morahan & Company, Inc. I would suggest that this is the only game left. The market for this type of coverage has completely fallen apart over the last nine months and the insurance is close to non-available. Shand has been the best in the marketplace for some time and it would appear that they are going to stick around for some time.

As soon as they have finished this let me know and I will come out and pickup the applications from you and hand carry them to Shand so that we can try and shorten up the time frame on this. Let me know if you have any questions:

Sincerely,

J. Thomas Freidheim

JTF/paf

Attached

SEP 1 0 1984

TO Reba Sneed W. J. Snith Wood Rew. Co Klinian, Reface

KATY INDUSTRIES, INC. 853 DUNDEE AVENUE ELGIN, ILLINOIS 60120 (312) 697-8900 SUBURBAN (312) 379-1121 CHICAGO

(SUBJECT E. I. L. Coverage	ATTENTION	DATE 9-11-84 -
Lleer Reba:		
The Tepa Water Department has	mow indu	ated that
Coverage for non-sudden pal	ution is new	ed. your
prient meurance should los	un sudden.	and accidents.
polition but would not exten	I to non-se	Aden There,
PLEASE REPLY TO -> SIGNED a spenal	type of prhy	is needed.
as you can see by C+B's le	the thee is	not easy
to get and could be expense	• /1	~
June by lefas (and within 60	doys) we me	est comply.
must have the application		
as soon as presible so we		
your early riply is urgently	y needed	
DATE SIGNED Mune	andrew.	
RECIPIENT - REPLY AND RETAIN PINK COPY, DETACH	AND RETURN THIS COPY TO SEN	

EXHIBIT B

September 17, 1984

Mr. Pat Jolly Albert H. Helff Associates, Inc. 8616 Northwest Plaza Drive Dallas, Texas 86225

Dear Pat:

We have on file with the Texas Department of WaterResources a surety bond which apparently does not meet their requirements.

Our Home Office has sent us an application to be filled in and returned so that they may issue non-sudden pollution coverage. We do not know the answers to many of these questions.

We would appreciate it if you would fill in all the technical quastions and return to us as soon as possible. We will complete and sign and forward to the Home Office.

All of our transactions regarding this bond have been with Mr. Russell Eimble, (5125 475-5516 should you need any information or assistance.

Yours very truly,

B. L. Redding President

BLR:rs Enclosures

Cc Verm Andrews

October 9, 1984

Mr. Verne Andrews Risk Meneger Katy Industries, Inc. 853 Dundee Avenue Elgin, Illinois 60120

Re: E.I.L. Coverage

Dear Verne:

We are returning the application for Environmental Impairment Liability Insurance, together with a copy of a geological survey map furnished us by our engineers handling our waste water control plan. There is also attached a copy of our emergency plan as requested in Item 7(b).

We are sorry to have been so long in getting this application filled in but we had to secure the services of our engineers in order to complete certain parts of the application.

Thanks for your help.

Yours pery truly,

Reba Sneed

RS:s , Enclosures one of the Dinate of the Charles of

FRONT Page ONly

SUBMITTED BY:		
RODUCER:	<u></u>	
ADDRESS:	•	
		ZIP
SURPLUS LINES	LICENSE	

UNDERWRITING MANAGER

SHAND, MORAHAN & COMPANY, INC.
ONE AMERICAN PLAZA
EVANSTON, ILLINOIS 60201
Telex: 72 4328 Phone: (312) 866-2800

APPLICATION FOR ENVIRONMENTAL IMPAIRMENT LIABILITY INSURANCE (CLAIMS MADE BASIS)

APPLICANT'S INSTRUCTIONS:

- 1. Answer all questions, if the answer to any question is NONE, please state NONE.
- 2. Application must be signed and dated by owner, partner or officer.

3. Complete a separate application for each site, facility or operation.

4. PLEASE READ CAREFULLY THE STATEMENTS AT THE END OF THIS APPLICA

EXHIBIT____

	PPLICANT	•
ì	Full name of all entities to be	Named Insureds: W. J. Smith Wood Preserving Company
Þ.		1700 W. Morton Street
		Defison, Texas 75020 1.4 miles west of intersection US 75 and Morton Street
Ç.		(FM 120) - Denison, Texas
	•	· - · - · · · · · · · · · · · · · · · ·
		Wood Preserving
		Proprietorship Other
f.	Years In business at this loca	ation:
g.	Prior experience in this business	ness:
h.	Present affiliation with other	firms: Subsidiary of Katy Industries, Inc.
AS1	E STORAGE AND TREATMEN	T FACILITIES complete sections 2 through 8.
LS1	E STORAGE AND TREATMEN	ections 3, 4, 6, 7, 9.
IS1	E STORAGE AND TREATMEN	RT FACILITIES complete sections 2 through 8.
IST	E STORAGE AND TREATMEN	RT FACILITIES complete sections 2 through 8. sections 3, 4, 6, 7, 9.
.S1 .S1	E STORAGE AND TREATMEN E GENERATORS complete se E TRANSPORTERS complete SITE OR FACILITY	RT FACILITIES complete sections 2 through 8. sections 3, 4, 6, 7, 9.

EXHIBIT F (page 2)

CORROON & BLACK of Illinois, Inc. 135 South LaSalle Street • Chicago 60603 312—621-4700 Insurance Brokers • Consultants
TWX • 9102214199 • NOORROC CGO
Cable • ALEXANCO

November 1, 1984

Mr. Verne Andrews Katy Industries, Inc. 853 Dundee Avenue Elgin, IL 60120

RE: W. J. Smith Wood Preserving/ Environmental Impairment Liability

Dear Verne:

As I noted to you on the phone we have a quotation for the Environmental Impairment Liability for the above division that is subject to inspection. The quote is as follows:

Limit	Deductible	Premium
3,000,000/6,000,000	50,000	\$29,250 Flat
3,000,000/6,000,000	100,000	\$21,250 Flat

The inspection must be done by a qualified engineer and the carrier Shand Morahan has offered two (2) such acceptable engineering companies in the same area as your division. Their names are Pilco; and Harding and Lawson. They suggested that the minimum charge for this will be approximately \$3,500.

If W. J. Smith will get in touch with these people it was told to me that we could have a very quick inspection and a verbal report by the engineer to Shand Morahan. At that time possibly we could go into further negotiations on the premium.

Let me know if you have any questions.

Sincerely,

J. Thomas Freidheim Senior Vice President NOV 6

JTP/ses

NV. W. Relding

NY: J. Smith Work Prov. lo

Ulinian, Refer Re Environental Impairment Leability This well confirm an telephone conversation of Friday Oat 26 regarding E.I.L. converge for your We have recented a firm guste from Shoul, morahan, subject to an area survey, he quate is as follows: For Limite of 3,000,000/6,000,000 as required by the lifes Water Klift. \$ 29,250.00 with a 50,000 distrible per occurrence & 21,250. or with a 100,000 deductable pur accurrence there are annual flat charge rate and fremume. although the quete is firm it is subject to a satisfice tory survey. This survey must be supplied by The enstomer and the cost probably well be 3,500.00. the mename company advises they well accept The finding of either PILCO or HARDING + LAWSON who in your area. On the survey is completed the surveyor should Call KEN JAGMIN at Shank marahan 312-866-280 rumetiately so converge con be asund.

for the survey to be completed as soon se possible so the pulmy can be sained as requested by the lifes authenties. Kup me proeted. _ Cunta Cultus This have been there there there allowed

The Digit Chie



American International Companies

LOS ANGELES BRANCH OFFICE 3699 Wilshire Boulevard Los Angeles, California 90010 213/480-3400

December 10, 1984

Donald R. Lee National General Agency P.O. Box 2759 Dallas, TX 75221

RE: W.J. Smith Wood Preserving Company

POLLUTION LEGAL LAIBILITY PREMIUM INDICATION

Dear Donald.

The following constitutes our premium indication on the above captioned account for the wood preserving facility detailed in the submission. Gradual coverage will be provided using National Union form #29700. (Enclosed)

Limit of Liability:

\$ 3,000,000/\$ 6,000,000

Self Insured Retention:

A)\$ 50,000 B)\$ 100,000

Premium:

A)\$ 35,060

B) \$ 30,850

The above indication is subject to the following:

- 1) A satisfactory engineering survey by the firm of our choice. (fee not included)
- 2) A completed National Union pollution application signed by the insured.
- 3) Name & EPA #'s of any non-owned disposal sites used by the insured.
- 4) Construction details on the lagoons, such as size, type and thickness of liner, monitoring well results, etc.
- 5) Schedule of tank information such as age, whether above or below ground, diked etc.
- 6) Details on water treatment facility such as method of treatment, POTW permits, sludge analysis, water monitoring results, etc.
- Details on non-complaince concerning the lagoon and action taken to meet compliance standards.

There will be no coverage for the following:

- 1) Any underground tank 12 years or older unless satisfactory NFPA integrity tests are performed by the insured.
- 2) Liability arising out of Superfund sites.

These indications will valid until December 31, 1984.

Very truly yours,

Nola M. Cameron

Pollution Legal Liability

NMC/pp

cc: John Amore

Paul J. Kinni

May 28, 1985

Mr. Jim Leinart Texas Employers Insurance Association 4107 Highway 75 North Sherman, Texas 75090

Dear Jim:

Referring to information needed to have a Pollution Legal Liability Policy issued to us, we are submitting the following information:

1. An engineering survey by Pilko Company has already been furnished you: this was one of the engineering firms acceptable by you.

2. National Union pollution application, completed and signed, is attached.

- We do not have the name and BPAss of the non-owned disposal sites but any material to be disposed will be contracted to hauling contractors, possibly Chemical Waste Hanagement, Inc. or Texas Ecologists.
- 4. The lagoons are on the M.K.T. property and according to Pilko's report, will not be included under this liability policy.
- A schedule of tank information is attached, however, please refer to page 3 of Bilko's report.
- 6. Water Treatment Facility: bacterial treatment plant using trickling filters, prior to wastewater discharge to City of Denison, under 1976 POTW permit; Both sludge content analysed daily in lab and wastewater analysed daily before discharge to POTW to be sure analysis meets POTW requirements.
- Non-applicable since lagoons will not be covered.

Please advise us if additional information is needed.

Yours very truly,

B. L. Redding President

BLR:rs Enclosures



NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA.

FROM PAGE ONLY

EXHIBIT I (con't.)

ADMINISTRATIVE OFFICES
70 PINE STREET, NEW YORK, N.Y. 10270

POLLUTION LEGAL LIABILITY APPLICATION (Include 10K report, annual report, and flow chart of process if available.)

THIS IS AN APPLICATION FOR A CLAIMS MADE POLICY

	RVING COMPANY	.
EPA IDENTIFICATION NUMBER(S):		·
TxD066368879	· · · · · · · · · · · · · · · · · · ·	· · · .
POST OFFICE ADDRESS:		
1700 W. Morton Street,	P. O. Box 703	
Denison, Texas 75020	<u> </u>	
LOCATIONS TO BE COVERED: Plan	nt 1.4 miles west of Inters	ection U.S. Highway 75
and Morton Street (FM 1	20), Denison, Texas	
•	,	
Partnership	Joint Venture / Other	
BUSINESS OF NAMED INSURED IS: Waste Generator Waste Transporter	☐ Waste Treatment, Storage and Dispo	sal Facility Other
BUSINESS OF NAMED INSURED IS: Waste Generator Waste Transporter		sal Facility Other
BUSINESS OF NAMED INSURED IS: Weste Generator Weste Transporter HOW LONG HAS THE NAMED INSURED	DWaste Treatment, Storage and Dispose BEEN IN BUSINESS? 56 years.	sal Facility Other
BUSINESS OF NAMED INSURED IS: Waste Generator Waste Transporter HOW LONG HAS THE NAMED INSURED SALES: A) ESTIMATED (Ensuing Year):	□Waste Treatment, Storage and Dispose BEEN IN BUSINESS? 56 years 11 million	sal Facility Other
BUSINESS OF NAMED INSURED IS: Weste Generator Weste Transporter HOW LONG HAS THE NAMED INSURED SALES: A) ESTIMATED (Ensuing Year): 1985 B) LAST 5 YEARS: 1984 12 PLEASE LIST: A. RAW MATERIALS B. PROCESS MATERIA (Plating agents, degree	□Waste Treatment, Storage and Dispose BEEN IN BUSINESS? 56 years. - 11 million mil-19 83 11 mil-19 82 10 mi	1.19 81 16 mil.19 80 14 mil.
BUSINESS OF NAMED INSURED IS: Weste Generator Weste Transporter HOW LONG HAS THE NAMED INSURED SALES: A) ESTIMATED (Ensuing Year): 1985 B) LAST 5 YEARS: 1984 12 PLEASE LIST: A. RAW MATERIALS B. PROCESS MATERIA (Plating agents, degree	□Waste Treatment, Storage and Dispose BEEN IN BUSINESS? 56 years. - 11 million mil.19 83 11 mil.19 82 10 mi USED AT LOCATION: ALS USED AT LOCATION: easers, heat treating agents, cleaning solvents,	1.19 81 16 mil.19 80 14 mil.
BUSINESS OF NAMED INSURED IS: Weste Generator	Waste Treatment, Storage and Dispose 56 years. 56 years. - 11 million mil. 19 83 11 mil. 19 82 10 mil USED AT LOCATION: ALS USED AT LOCATION: easers, heat treating agents, cleaning solvents, weet if space provided is insufficient.)	1.19 81 16 mil. 80 14 mil. etc.)
BUSINESS OF NAMED INSURED IS: Waste Generator Weste Transporter HOW LONG HAS THE NAMED INSURED SALES: A) ESTIMATED (Ensuing Year): 1985 B) LAST 5 YEARS: 1984 12 PLEASE LIST: A. RAW MATERIALS B. PROCESS MATERI (Plating agents, degr (Please use additional sh	□Waste Treatment, Storage and Dispose 56 years. = 11 million mil-19 83 11 mil-19 82 10 mi USED AT LOCATION: ALS USED AT LOCATION: easers, heat treating agents, cleaning solvents, weet if space provided is insufficient.) OUANTITY USED PER YEAR 2,214,465 cu.ft.	etc.) MAXIMUM QUANTITY STOCKED ANY ONE TIME

EXHIBIT_____

National General Agency, Inc.

1301 YOUNG | DALLAS, TEXAS 75202

June 3, 1985

American International Companies 3699 Wilshire Boulevard Los Angeles, California 90010

Attn: Ms. Nols Cameron Pollution Legal Liability Dept. JUN 0 8 1985

Ret W.J. Smith Wood Preserving Company Pollution Legal Liability Quotations

Dear Nola:

On 12-10-84 you gave us premium indications on the above account. Please see the attached copy of your prior letter. At that time, you needed answers to some additional questions, and you also needed an Engineering Survey done by an approved outside engineering firm.

Attached is a completed application, a letter dated 5-28-85 from W.J. Smith Wood Preserving Company and an Engineering Survey conducted by Pilko & Associates dated 5-16-85.

Please review the attached information and furnish us with quotations on this account at the earliest. We would like quotations at various limits and deductibles.

Thanks very much and let me know if you need enything else.

Sincerely yours.

Donald R. Lee Vice President & Manager

DRLipt

cc: Mr. Jim Leinert





TEXAS EMPLOYERS' INSURANCE ASSOCIATION

4107 HIGHWAY 75 NORTH | SHERMAN, TEXAS 75090 | TEL. 893-9471 AREA CODE 214

June 6, 1985

Mr. B. L. Redding, President W. J. Smith Wood Preserving Company Post Office Box 703 Denison, Texas 75020

Re: Pollution Liability Application

Dear Mr. Redding:

Thank you very much for your letter of May 28, 1985 with the additional information concerning the pollution liability coverage.

Please find attached a copy of a letter from our Home Office to American International Companies concerning this coverage.

I have been advised that American International is about the only company that is quoting pollution liability at the present time and that they are behind in issuing quotations. Hopefully we can hear from them in the near future, but it will be several weeks, I'm sure.

Thank you very much for your cooperation in this matter.

Sincenely.

Jim Leinart

Senior Marketing Executive

Jimek

rayens mounance àf

4107 Hwy. 75 North / Sherman, Tex. 75090 / 214 893-9471

ers Casualty Company
..mployers' Insurance Association
.yers National Life Insurance Company

EXHIBIT____

AM

American International Companies

LOS ANGELES BRANCH OFFICE 3699 Wilshire Boulevard Los Angeles, California 90010 213/480-3400 August 6, 1985

Donald R. Lee National General Agency Inc. P.O. Box 2759 Dallas, TX 75221

37 EIT AUG 1 8 1965

RE: W.J. Smith Wood Preserving Co.

Res. 892-8600

Dear Donald,

I have reviewed the Additional information and the Pilko report. Prior to providing indications on this account I will need a response to the recommendations made on page 4 of the report and status of actions taken to comply with those recommendations.

Please review and advise.

Sincerely,

The Mi Caneron

Nola M. Cameron Pollution Legal Liability

NMC/pp

cc: John Amore

Seen AUG 1 6 1985

RISK ASSESSMENT RATING

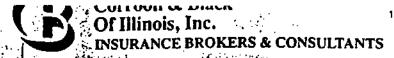
The W. J. Smith Wood Preservative Company, Denison Plant, is considered an average exposure based on 1) low permeability of the underlying soils, 2) the reported depth of 80-150 feet to usable groundwater, 3) the use of a concrete lined basin for contaminated water, and 4) treatment of wastewaters and stormwater in a POTW.

There is some concern with the use of an uncoated buried steel preservative tank, buried diesel fuel storage tanks and the unlined oil/water separator.

RECOMMENDATIONS

The following recommendations, with suggested time intervals for completion, are made as a condition of the risk assessment rating assigned.

- 85-1 Consider alternatives to storage of materials in buried tanks or select procedures for leak detection and monitoring of buried storage tanks and piping. Implement the leak detection monitoring procedures and document results for review by the consulting engineer. (6 Months)
- 85~2 Conduct soil boring on the tram track area outside the treating building and tank car unloading areas to determine the penetration depth of the preservatives. (3 months)
- 85-3 Complete the closure of the unlined oil/water separator pond and construction of the concrete oil/water separator as required by the compliance agreement with the TDWR. (6 months)
- 85-4 Test transformer oils in onsite transformers for PCB content. If PCBs are found, implement procedures required by TSCA regulations found in 40 CFR Section 761. (4 months)
- 85-5 Revise SPCC plan incorporating changes from the closure of the unlined oil/water separator. Recertify the plan as required by regulations. (7 months)



135 South LaSalle Street Chicago, Illinois 60603 (312) 621-4700

INVOICE DATE 06/24/85

> INVOICE NO. 228040

CUSTOMER NO. I

SURETY

W J SMITH WOOD PI 1700 W MORTON ST BENISON 113099 & W J SMITH WOOD PRESERVING

TX 75020

AMOUNT

06/12/85 TO 06/12/86 KEN "HEUBES" (312) 621-4689 POLICY OR PAYMENT PERIOD NAME INSURED: W J SHITH WOOD

POLICY INFORMATION

INSURANCE CO OF NO AMER

2444124 RENEWAL PREMIUM

1,200.00

W J SHITH WOOD PRESERVING COMPANY TEXAS DEPARTMENT OF WATER RESOURCES BOND AMOUNT \$60,000.00

> APPROVED FOR PAYOTHE NAME ..

THE PREMIUM IS DUE ON THE EFFECTIVE DATE OF THE ITEM BILLED.

AMOUNT

1,200.00

TARGET SHEET

SITE NAME: WJ	SMITH WOOD PRESERVING CO	
CERCLIS I.D.:	TXD066368879	
TITLE OF DOC.:	[REDACTED] DOJ REFERRAL AND ATTACHMENTS	
DATE OF DOC.:	UNDATED	
NO. OF PGS. THIS	TARGET SHEET REPLACES:	125
SDMS #: 5000	12425 RELATED #:	916321
SENSITIVE ?	X MISSING PAGES ?	
ALTERN. MEDIA ?	CROSS REFERENCE ?	
LAB DOCUMENT ?	LAB NAME:	
ASC./BOX #:		
CASE #:	SDG #:	
DOC	ES 76-200 WERE REDACTED FROM THIS UMENT DUE TO FOIA EXEPTION B(5) -	;

EXECUTIVE DIRECTOR TEXAS DEPARTMENT OF WATER RESOURCES ATTN: Permit Control & Reports Section P.O. Box 13087, Capitol Station Austin, Texas 78711

FOR DEPARTM	ENT USE ONLY
Application No.	
Permit No.	
Adm. Review By .	. '
Administratively Complete	
Copies Sent:	

INDUSTRIAL HAZARDOUS WASTE PART B PERMIT APPLICATION

,_ ,,	Applica			el. Corporation, or Other			
A	Addres	: 1700 W. Mort	on Street (1	P.O. Box 703)		
С	City:	Denison		State:	Texas	Zip Code:	75020
T	e lepha	one Number: <u>(214)</u>					
If	f the a	Indication is submitte	d an bahalf af a a		المعام والتنامية	6 6	
				corporation, pleas	e identity the	Charter Numbe	r as recorded
W		e Office of the Secret		exas. N/A	Number)	Charter Numbe	r as recorded
B .	vith th	e Office of the Secret ist those persons or fi	tary of State for T frms, including a	exas. N/A (Charler complete mailing	Numbers address and te	elephone numb	
	vith th	e Office of the Secret ist those persons or fi sect for the applicant	tary of State for T irms, including a t during the proce	exas. N/A (Charler complete mailing	Numberi address and te	elephone numb	er, authorized
	vith th	e Office of the Secret ist those persons or fi act for the applicant in. Bill Redding	tary of State for T irms, including a t during the proce	exas. N/A (Charler complete mailing	Numbers address and te nit application. Dr. Alber	elephone numb	er, authorized sek
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B	vith th 1. L to P k F	ist those persons or fine act for the applicant in . Bill Redding resident .J. Smith Wood .O. Box 703 lenison, Texas	tary of State for T frms, including a diduring the proce g Preserving 75020	exas. N/A tchaner complete mailing essing of the perm	Numberl address and tent application. Dr. Albert H. 8616 Nort Dallas, T (214) 739	elephone numb t C. Petra Halff Ass thwest Plaz Texas 7522 9-0094	er, authorized sek ociates, Ind a Drive 5
B	1. L to P F C 2. 1	e Office of the Secret ist those persons or fine sect for the applicant in. Bill Redding resident I.J. Smith Wood I.O. Box 703	iary of State for T frms, including a c during the proce g Preserving 75020 pmitted by a corpo	exas. N/A tchaner complete mailing essing of the perm Co.	Numberl address and tent application. Dr. Albert H. 8616 Nort Dallas, T (214) 739	elephone numb t C. Petra Halff Ass thwest Plaz Texas 7522 0-0094	er, authorized sek ociates, Ind a Drive 5

3. List the individual and his/her mailing address that will be responsible for causing notice to be published in the newspaper.

Mr. Bill Redding W.J. Smith Wood Preserving Co.

P.O. Box 703

75020 Denison, Texas

TDWR-0376 (Rev. 05-01-85) Storage/Processing/Disposal Application

- 1 -

WR Registration No.: 31332	EPA I.D. No.:	TXD066368879
unty: Grayson		-
. Provide a general description of		te any changes from the origina
See Attachment 1 Suppl	ementary Information	to Question D.1.
••		•
•	•	•
List the facility components cov and the rated capacity or size or		t the waste managed in that con
. Facility Component	Waste Type	Rated Capacity
Sludge Drying Beds	K001 S1udge	50 cubic feet
<u>Stormwater Retention</u> Basin	n <u>KOO1 Sludge</u>	450,000 gallons
 .		
		·
	. <u></u>	
	••	
		
		1 Magazing
		and the second s
		<u></u>
r existing disposal facilities provide propriate alternate instrument. If gistration number. Check one:		
propriate alternate instrument. If	previously submitted, pleas	se reference the submittal by d

Attachment 1 Supplementary Information to Question D.1.

D.I. The two facilities covered within this application include a 450,000 gallon concrete-lined retention/equalization basin for the collection of the effluent resulting from the gravity separation of spent water/creosote mixture from the processing area and the collection of waste waters resulting from run-off contacting the processing area and the product storage areas. The second facility is the gravity drying beds for the dewatering of the biological sludge generated from the trickling filters which are designed for the treatment of waste waters collected in the retention/equalization basin prior to discharging to the POTW (See Process Flow Diagram - Figure 1, Appendix "A").

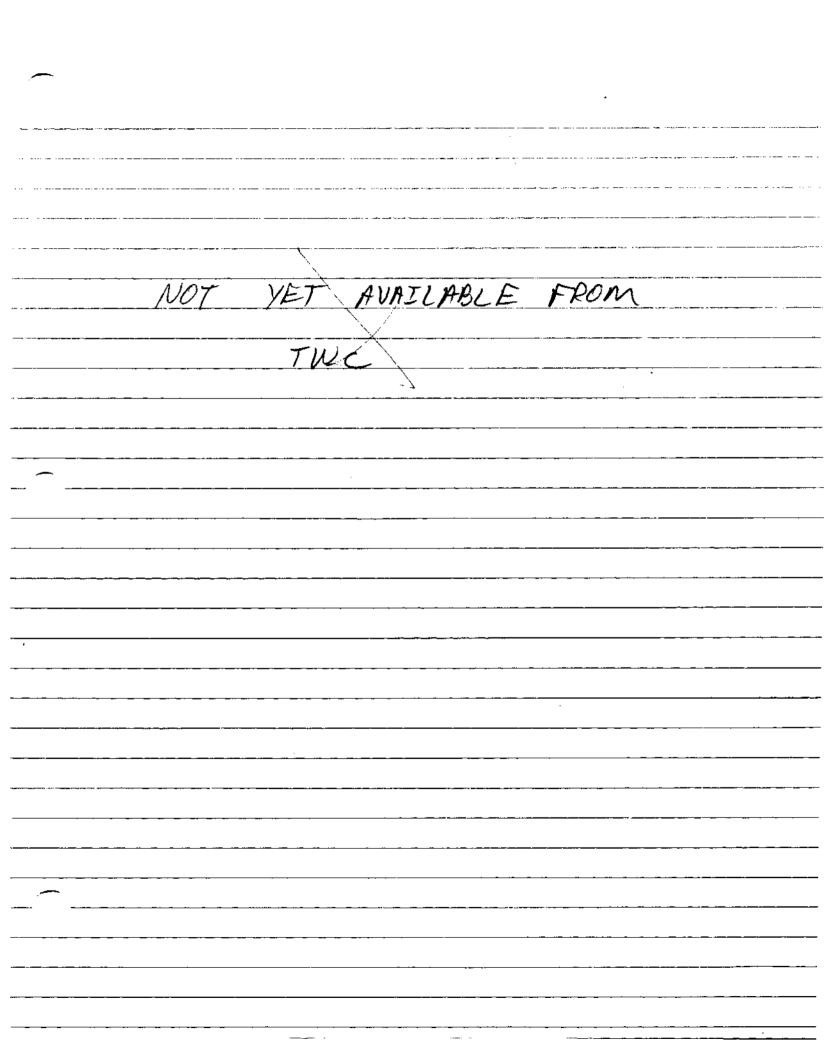
The retention/equalization basin has been in operation since 1971 and is an active part of the pretreatment system discharging effluent to the City of Denison's wastewater collection system. The primary load to the retention/equalization basin originates from the gravity separator. This concrete tank separates the wastewater for treatment and recycles the creosote for production reuse. Should solids accumulate within the retention/equalization basin, a pump can be initiated to recycle back to the headworks of the wastewater treatment system prior to the separator. Additional wastewater is generated during storm conditions when stormwater which falls on the production or finished product storage areas is collected by yard inlets and piped to the retention/equalization basin for treatment and discharge to the City of Denison.

The sludge drying beds have a design capacity of 50 cubic yards and were constructed in 1971. The sludge, generated from the trickling filter, is concentrated within the inclined plate clarifier and periodically pumped to a decant tank prior to air drying the sludge on the drying beds. The exact quantity of biological sludge generated is not known, but is believed to be less than 1,000 pounds per year since operations began in 1971.

These mea:	ures include (check applicable items).	•
Stopp	ng processes and operations	
••	ing and containing released waste	
	ing or isolating containers	
	describe below)	
are all eall proce all emer	trial Hazardous Waste Part B Permit Application lassified as surface impoundments. Therefore, dures that will be adopted in responding to any angency situations have been detailed in Question C.1 and the Contingency Plan (Appendix F).	
	Such altered to the second	<i>:</i>
	The second secon	
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	The second secon	
		••••
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ATTACHMENT NO. 9

CME INSPECTION REPORT EXCERPTS



File: III A

TWC Reg. No. 31332

TEXAS WATER COMMISSION
Comprehensive GW Monitoring Evaluation (CME) Report

INSPECTION COVER SHEET

EPA ID No. TXD066368879		•	C.O.Use Only O9-86 LLS Date Entry Date
NAME OF COMPANY W.J. Smith W	reserv	ing Company	*************************************
SITE ADDRESS P.O. Box 703 D	chison, TX	75020	Tel(214) 465-6161
COUNTY Grayson TYPE OF	INDUSTRYC	reosote wood c	Ireservation
Current GW Monitoring Status:	Detection	(area 1 - w. J. S.	rith Plane Site)
(Specify for each Waste Management Area "WMA")	None	(area 2- MKT !	Site)
Inspection Information: Inspector (s) David Smith, David Gerardo Garcia, Car Participants Bill Redding - W.T	oline abbott -	- Central office Disover 4	Date(s) 7-23-86
Type of Inspection (check) EV	adams, Dan T	iansky – Albert H. H X SA X	alff Cssociates
Evaluation: S	U	Signed	. Qolad
A. Monitoring System	. <u>×</u>	•	Inspector 8-22-86
B. Sampling Procedures	×	Duce.	
C. Analysis & Results		Signed	the second secon
D. Records & Response	×	Date:	Reviewer 5/29/86
S= Satisfactory U= Unsati	sfactory		
Overall Evaluation: Compl	iantN	lonCompliant <u>×</u>	

TEXAS WATER COMMISSION Comprehensive GW Monitoring Evaluation (CME) Report

CONTENTS SHEET

FACILITY	NAME W.J. Smith wood Preserving Company
√ 1.	Code Sheet (0814)
2.	Interoffice Memorandum (ICM)
<u>/</u> 3.	Inspection Cover Sheet
<u>/</u> 4.	Technical Report, with supporting Attachments
•	
	/ B. Sampling Procedures
	C. Analysis and Results
	D. Records and Response
6.	EV Inspection Checklist (if joint inspection with District Office) Notice of Violation (NOV) / Enforcement Letter to Facility
· '·	Other (describe)
	·
* If a n	equired Checklist is omitted, Explain: Laboratory analyses are
	omplered, analyses and results will be submitted as an
	dum when available.

On July 23, 1986, a Comprehensive Groundwater Monitoring Evaluation (CME) was conducted at W.J. Smith Wood Preserving Company. During this inspection, the following noncompliances were noted which are in violation of solid waste rules:

W.J. Smith Plant Site (Area 1)

Violations:

- 1. 31 TAC 335.112/40 CFR 265.91 (Formerly 31 TAC 335.192.
 Monitor wells at the W.J. Smith site are not capable of yielding samples from the uppermost aquifer beneath the facility (See attached Section A, Comment 3.d.).
- 2. 31 TAC 335.112/40 CFR 265.92 (Formerly 31 TAC 335.193) W.J. Smith does not maintain a sampling and analysis plan which specifies analytical procedures.
- 3. 31 TAC 335.112/40 CFR 265.92(e) (Formerly 31 TAC 335.193(e)
 W.J. Smith did not obtain water-level measurements during the November 29, 1985 sampling event at the site.
- 4. 31 TAC 335.112/40 CFR 265.94(2) (Formerly 31 TAC 335.195(2).
 W.J. Smith was supposedly not aware of self-reporting requirements prior to an enforcement conference conducted on July 11, 1986. Analyses from the November 29, 1985 sampling event was not self-reported. Analyses from the July 23, 1986 CME was self-reported at TWC request.

MKT Site (Site 2)

Violation:

1. 31 TAC 335.112/40 CFR 265.90 (Formerly 31 TAC 335.191) A monitor-well system has not been established at the MKT site to determine the extent of contamination resulting from the operation of the seven impoundments which existed at this site.

Technical Report Comprehensive GW Monitoring Evaluation (CME)

INTRODUCTION

1.	COMPANY: W. Z	. Smith wood	Preserving (ompany	
	Process Descript	ion: <u>Creosote</u>	wood pres	servative	is pressure
	impregnated	into finished	wood prod	ucts (te	lephone poles
	, ,	ssties etc.) with			
	Plant Site has A	peen in operation	since: 1909	<u> </u>	
2.	. PHYSIOGRAPHY ANI	CLIMATE			
	a. Site Topograp	phy- Attachment A- al: Rainfall 38.8°	(indicate : or reprod	site locat uction) ture 64.1	ion directly on map F Evaporation 74"
	c. Surficial So	ils Map- Attachmen	t <u> A-2</u>		
	d. Surface water	c bodies or other	recharge/dis	charge fea	atures or wells: A-3
	Surface water	runoff from the	ne W.J. Sm.	th plant s	ite (Site 1) and the MKT
	Site (Site 2) 4	flow through two	unnamed c	reeks to	Worthoo Lake.
3,	The w.J.Sm	ent features— use Lith plant Site ha Il is located appr I UNITS Requiring	s seven mo	mitor we	ls. In addition, one the southeast.
	- Indicate	Units on Site Diag	ram: Attachm	ent (s) <u>A</u> -	-4, A-5
· .		Waste Management A	rea (WMA) bo	undaries d	on Site Diagram
	<u>CRA Regulared (</u> nit	luirs Size	Yr in Service	Status*	Construction
No. 1 Rex	turion/Egualization	Basin 160'x160'x12'	15.	<u>A.R</u>	Concrete impoundment
No.2 SIL	rdge Drying Bed's	26' × 26' × ?	15	<u>A,R</u>	concrete impoundment
NO.C E	arthern Separator	225,000 gallons	76	C,R	circular, unlined pit -
					(closed and replaced by
					concrete separator No.2

NOTE: Use continuation sheet if necessary.

^{*} A=Active C1=Closed I=Inactive R=Regulated Unit MN=NonHazardous

issed waste Manage	ment Units	Yr in	Chabuah	Countryphia
Unit	Size	Service	Status*	Construction
No. A Concrete Separatur No. 1	3,700 gailons	רר	A	circular concrete tout
No. B Concrete Separator No. 2	19'x 17'x 18'	1	A	concrete tank
No. O Trickling Filter Towers (2)	28'× 19'×30'	13	<u>A</u>	concrete towers
No.E Concrete Claritier	10,000 gallons	14	<u>A</u>	טספת- דסף כסיביפש דבין
No. F Lagoons "Earthern Basins"	3.Sacres	60	I	(7) unlined pits
No. 6 Disposal Pirs and Mounds	3.8 acres	1	A	linedand copped landt.
No. H Studge Decout Tank	8 diameter	intrown	<u>A</u>	elevated, closed top steel tank
4.		-		***************************************

NOTE: Use continuation sheet if necessary.

* A=Active Ci=Closed I=Inactive R=Regulated Unit NH=NonHazardous

The Earthern Basins (10.F) and Disposal Pits and Mounds (10.6), are located on the MKT Site (site 2) located west of the W.J. Smith plant site. Material excavated from the inactive earthern basins is being placed in unit Noi 6 for proper disposal.

W.J. Smith has currently filled and capped one landfill, and has plans for one more.

Ø1/81

A. Ground Water Monitoring System

1 .	Reg	ional Geology (Sherman) Sheet, Geol. Atlas of Texas)
	a.	Physiographic province Gulf Coastal Plain
	b.	Formation(s) Grayson Marl, Main Street Limestone, Pawpaw Sand, Wene Clay
		Lithology marly limestone, Sand, clay
		Regional dip and gradient Southeast; 35 feet/mile (Part B, appendix B, p. B-
	c.	Depth to top/bottom of useable quality (210,000 mg/1 TDS) ground
		water 230-100 feet determined by
		See c. in comments below.
	d.	Regional direction of ground water flow How in He Pawpaw,
		determined by is north to south-southeast (Part B, page 48).
	e.	Is site on recharge area of major/minor named aquifer (YN)?
		see e. in comments below
	f.	Part B permit application - Geology Report: pages mass R-1 - R-16

the Main Street Limestone underly the W.J. Smith facility to a depth of approximately 30 feet. These formations are not known to yield water in Grayson County. The Pawpaw Sand which underlies these formations to a depth of approximately 100 feet yields Small to moderate quantities of water in this area. Beneath the Powpaw formation, the remaining Cretaceous washira group and Fredericks burg group members are not known to yield water in Grayson County. The Cretaceous Trinity group formation is located approximately 600 feet beneath the w.J. Smith facility. This formation is approximately 600 feet thick and forms

Comments:
an important aguifer in the area.
e. The Pawpaw formation which forms a minor aguifer in the
Dicinity of W.J. Smith outcrops just north of Devison. This
aguiter may be subject to recharge from surface intiltration through
the overlying Main Street limestone in the vicinity of W.J. Smith.
also, contaminated surface ranoff from this facility crosses the outcrop
area of the woodbine formation south of the site. The woodbine
tormation torms an important aguifer in Grayson County.

*

と、我の行うということを表現しては特殊的ないには特別の自己はないのは、 はないのでは、特別になる

2. Si	te Hydrogeology (W.J. Smrh Plant Site - Site)
а	Attachment A-6 - Site diagram with locations of waste management
	area(s) [WMA], borings, wells, lines of cross-sections, etc.
Ъ	Site stratigraphy to depth of investigation- 106 feet:
	Unit Thickness Description
	I 0-6' topsoil, sandy.
	II 10-15' clay, some sand
	III 0-4' limestone (oil present above this layer)
	IV 50-65' Sand w/ Shale leyers
	II 720' grey shale w/ shale and sand layers
c	Attachment A-7,8 -Cross-Section(s)
d	Saturated zone(a) and Aquitard(a)
	Unit Depth Saturated Potentiometric Confined/ K Vertical water Encou. Thickness Rise Unconf. Gradient water exists in this unit, The levels unknown due to well construction unconf. ————————————————————————————————————
	IV M.A. 50-65' 3 30 feet contined 10 trysec
	
e	Is first water-bearing zone in hydraulic communication with deeper zone (Y.N)? See comment e. below
f	. Is aquitard continuous beneath site (Y)N)?
g	
	Attachment See connect 3. below Aquiclude Thickness
	Migration Time
h	. Unit(s) monitored during interim status
i	. Unit(s) designated as uppermost aquifer in Pt. B TV
	Concur (YM) uppermost agailer is unit II.

2. Site Hydrogeology, comments: (W.J. Smith Plant Site Comments)
e. The first water-bearing zone beneath the site (Unit II) is
separated by an approximately 4 foot thick limestone
byer (unit III) from the underlying Powpow formation (unit II).
The presence of artesian conditions in the Pawpaw formation
indicate the lack of hydraulic communication between this unit
and the appermost water-bearing zone. although the limestone
layer appears to be laterally continuous beneath the site, it
Should be noted that it varies laterally in both thickness and
composition. In addition, this unit thing to only I foot in
thickness in the northeastern portion of the plant site (See
boring log for monitor well MW-1, attachment A-11).
During drilling of monitor wells at this site, oily creosote
contamination was noted in monitor wells MW-2,4,5,6, and 7.
This contomination was located just above the limestone layer
(unit HI). The presence of this layer, and the upward hydraulic
gradient has probably served to limit the downward migration
of creosote constituents
g. Vertical migration potential is upword. also, it is
difficult to establish k of aguitard.
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3.	Мов	ditor Well Construction
	a,	Attachment A-11 -Well construction diagrams.
	ь.	Attachment A-12 -Table of well construction details.
	c.	Do monitor well installation techniques and materials of
	đ.	construction satisfy 31-TAC 335.192(c)=(Y/N)? 31 TAC 335.112/ 40 CFR Section 265.91 - NO. Comments: See Comment 3.2. below
4.	Sit	e Ground Water Movement
	a.	Attachment A-13 -Water table/Potentiometric Surface Map. (Indicate
		inferred flow directions directly on map. Include several maps to
		show the range of observed water level measurements).
	ъ.	Calculate minimum and maximum observed gradients in units of
		feet/foot. Show on map and list here = .00303 {+/{f+
		maximum = .01 ft/ft
	c.	Attachment A-14 -Calculations of average linear velocity (v) for
		gradients reported above, showing all assumptions. List results
		here: Uminimum = 18.8 ft/yr
	,	Umaximum = 62 ft/yr
	d,	Comments: <u>See comment 4.d. below</u>
		<u> </u>

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Site Hydrogeology, comments: 30. Continued
CICOSUTE CONSTITUENTS.
although the PUC wells currently installed at the site
are adequate for monitoring the lower zone (Paupaw formation), puc
would not be appropriate for monitoring the upper zone because
of the creosote concentrations likely to be present.
4. <i>d</i> .
Please note that these measurements are for the Paupau
formation, not the water-table aguiler beneath the site.
Wells MW-4 and MW-5 were not used because of obvious
discrepancies in ground surface elevations and water levels.
all wells are currently being re-surveyed at the request
of the TWC. It should be further noted that groundwater
flow directions submitted in the proposed Groundwater
Detection Monitoring System are different from those
provided in arrachment A-13 of this CME report. Additional
monitor wells or piezometers will be necessary to adequately
define groundwater flow directions.

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Mon	itor Well Placement not applicable, See response to 3. d. above.
á.	Indicate distance(s) of upgradient/background well(s) from WNA
b .	Are designated upgradient well(s) confirmed as upgradient (Y/N)?
	[31 TAC 335.192(a)(1)]
۶.	Are upgradient well placements adequate to yield samples
	representative of background groundwater quality (Y/N)? [31 TAC
	335.192(a)(1)(A)], unaffected by WMA (Y/N)? [31 TAC
	335.192(a)(1)(B)]
Æ.	Indicate on the site diagram (Att above) the lateral spacing,
	in feet, of downgradient/perimeter monitor wells.
Æ.	Are designated downgradient wells confirmed as downgradient (Y/N)
٤٠.	Describe the operator's justification for lateral spacing
	•
8.	Is the lateral spacing sufficient to satisfy the performance
	standard of 31 TAC 335.192(a)(2)? (Y/N). If no, explain in
	comments.
ж.	Indicate on map and tabulate below the distances of down gradient
	wells from the edge of WMA along the direction of groundwater flow:
	Well
	Distance
	Time
	<u> </u>
	Calculate groundwater travel time based on v calculated above.

5.

Assuming conservative transport, will each well detect contaminants during the active life or post-closure care period. Indicate those wells that will not with (*).

i. Vertical placement- Indicate on cross-sections (Att A=7,8, above) the screened and gravel-packed intervals of wells and tabulate:

Well	1	2_	3	4	S	6	٦		
Screen	1. 5'	1, 20 ¹	40'	1, 20'	1. 201	40'	40'		
length	3, 2,	2.20		2. 20'	2, 20	40	40		
Aquifer		(22,	_ \.'	48'	64'	80'	68 ,		
thickness	74'	83,	יר ור	140		50			
s/u	u	u	u	u	u	и	и		

S=Satisfactory U=Unsatisfactory

Explain in comments why vertical placement is unsatisfactory {31-TAC

335.192(c)}. 335.112/40CFR 265.91

Comments: as explained under 3.d. above, the wells in use at
W.J. Smith are not completed in the appearmost agaiter.
The extensive grovel packs and multiple screens present in
these wells are designed for use as high capacity water
wells. Their completion beneath the limestone aguitard
present at this site renders them unsatisfactory under
requirements of 31 TAC 335.112/40CFR 265.91.
•

Sa	mpling Procedures
	31TAC 335. HZ/ 40CFR 265.92
1.	a. Is a Sampling Plan [$\frac{31-TAC}{335.193(a)}$] maintained at the facility? Include a copy as Attachment $\frac{\beta^{-1}}{a}$.
	Yes × No
	b. Does the plan address the following items:
	(1) Sample collection procedures Yes \times No (2) Sample preservation and shipment Yes \times No
	(3) Analytical procedures Yes No X
	(4) Chain of custody procedures Yes V No
	c. List deficiencies/omissions/recommended changes:
	1. analytical procedures should be apecified in the Sampling Plan
	2. Methods used to measure water levels should be specified
	d. Does the facility follow the plan during sampling
	events? Yes No_X
	If not, describe differences between the plan and actual sampling procedures:
	1. Field measurements of temperature, DH, and Specific conductance
	are specified in the plan, but not conclusted in the field.
	2. The some intake hose is used to evacuate every well, but
	the plan specifics a separate hose for each well (See poor 5)
2.	Are wells equipped with caps (Y/N), annulus seals (Y/N) to prevent contamination from surface sources? Are the well caps lockable? (Y/N) Caps are bolted on the well casing, but are not provided with locks.
3.	Describe how and when measurements of water level and well
	with the bailer used to sample each well. a steel tope was
	used to measure the distance the bailer was lowered along the
	string line. Measurements were made prior to evacuating the
	wells. Total well depth was not measured.
4 .	a. Describe well evacuation equipment and techniques:
	well evacuation was accomplished by use of a gasoline driven
	centrilugal pump. a rubber intate hote was used and rinsed
	between wells. The total well volume removed was basich on Figure 2
	of the attached Sampling Plan.

	b. Are appropriate collection and disposal methods used for bailed water? (Y/N) Describe: Camera well are producing
	relatively clean water; the water is pumped out the ground.
	c. If the same equipment is used to evacuate each well, describe decontamination procedures: Rubber intake hose is riused between wells; pump and discharge hose are not
	decontoninated.
5,4	a. Describe the sampling equipment and methodology used to collect samples: Following evacuation of the required three well volumes, Separate tellon bailers were used to salple each well. These bailers were decontaminated before use, and Stored
	wrapped in foil. Unlon twine was used to lower each pailer, and
	was replaced between wells. Sample borries were filled directly
	from the bailers.
	b. If the same equipment is used to sample each well, describe decontamination procedures: \(\mathcal{L} \cdot A \).
	Individual tetion bailers are used in each well.
	THRITITED DAILES CHE ESTOR IN EACH WELL
	c. Indicate the order in which samples are taken: 1st; 2nd; 3rd; 4th; no specific Sampling order was utilized.
6.	Indicate parameters determined in the field/ on-site lab; within w.A. min./hr. of taking sample: (Note type of instruments used.)
	(Note type of Institution deed.)
	Temperature L.A.
	ph \mathcal{N}, A .
	Sp. Conductance N.A.
	oppose to total warmer and makes
	Other No field measurements were taken.
7.	a. Describe techniques for field filtration of samples:
	b. Parameters filtered:

8. Complete the following table for the facility's sampling program:

Container	Preservative	Parame	ters	s/t
1-liter glass	HNO3/ice	Meta	ls.	s
1-liter gless	ice	Organ	rics	S
1- liver glass	H2504/ice	Phenols		S
40ml UOA	ıce	To	×	s
100ml Bac-T	ice	Calator	m Bocteria	S
		<u> </u>		
filtered price also, Tox this Samp	And coologue bacteristing event.	a were v	ios sampled	during
Also Tox This Samp the observed	and codoform bacters whing event. sampling methodo	م بدر بر logy ade	os sampled	during
fildred production of this Samp this Samp the observed Indicator par	and coloring bacters and coloring bacters bling event. sampling methodo rameters	logy ade	quate for	clums
this Samp s the observed Indicator para	sampling methodo rameters	N/A _	os sampled	clucing No ×
the observed Indicator parameters of the paramet	sampling methodo rameters	N/A	quate for Yes Yes	no ×
also, Tox also, Tox also, Tox this Samp s the observed Indicator para Quality para Drinking wate Metals Volatile organic	sampling methodo rameters er parameters anics (x): Floati	N/AN/AN/AN/A	quate for Yes Yes Yes Yes Cible orga	No X
also Tox also Tox this Somp s the observed . Indicator para . Quality para . Drinking wate . Metals . Volatile org	sampling methodo rameters meters er parameters	N/AN/AN/A	quate for Yes Yes Yes Yes Cible orga	No No nics (ble]:
s the observed Indicator parameters of the consequence of the consequ	sampling methodo rameters er parameters anics (x); Floati ible organics () sible problems:	N/A	quate for Yes Yes Yes Cible organif applica	No No No nics (ble]:
s the observed Indicator parameters Quality parameters Drinking water Netals Volatile organisc Describe poses and parameters	sampling methodo rameters er parameters anics (x); Floati	N/A	quate for Yes Yes Yes Yes Gible orga if applica Yes	No N

10.	Describe any Quality Assurance/Quality Control (QA/QC) procedures used in the facility's sampling program: field blocks are used for QA/QC
11.	a. Describe Chain of Custody (C.O.C.) and shipping procedures: Chain-of-Custody procedures have been established as shown in Figures 3 and 4 in the W.J. Smith Sampling Plan presented as attachment B-1.
	b. Attachment 8-1 : Example of C.O.C. tag or Example of sample identification tag or label. Attachment :
12.	Do the C.O.C. and shipping procedures minimize the possibility of tampering with the samples? Yes X No
13.	Complete the following items if monitor wells are co-sample with the facility operator.
	a. Person(s) who collected samples for: Facility Porick Jolly, Berry adams, Dan Tansky TWC Dovid Smith, David Budanan, Gerardo Garcia, Caroline abboth
	b. Number of wells co-sampled: 4 of 7 total RCR wells.
	c. Attachment B-2 - TWC Sample Schedule
	d. Attachment B-3 - TWC Field Notes
	e. comments: <u>Samples were obtained for GC/MS organics</u> analysis, major ions, and TOC.

YES

NO

TWC Solid Waste Inspection Report (TAC 335.191-195)

GROUND WATER MONITORING CHECKLIST

 GROUND WATER MONITORING STATUS: Complete the table for each Waste Management Area (WMA):

WMA	Description		Activity Status	Monitoring Status	Number of Wells
1	W.J. Smith Plant Sire	(Site 1)	Α	detection	U 1 D 6
2	MKT Site	(size 2)	Z	none	U D
3					ם ט
4					U D

Give date of approval for waivers, alternate plan, or assessment plan, as applicable: N.A. (W.J. Smith has submitted a Detection Monitoring Program for the wastewater treatment facilities on July, 1986. This plan is currently under review with their Port B application.

- Provide a diagram locating each monitoring well and waste site(s). List depths, diameter and completion data on each well not included on the previous inspection.
- 3. Has the following been installed in the uppermost aquifer around each Waste Management Area(s): wells not installed in appermost aguifer a. At least one hydraulically upgradient well?

 b. At least three hydraulically downgradient wells?

 c. Indicate WMA(s) that that are not compliant: | land 2 (Both sizes)

 d. Describe possible problems on Comments Sheet.

 4. If the WMA includes multiple waste management facilities, is each facility adequately monitored?

 N/A YES NO.
- Does the facility have a **GW Sampling and Analysis Plan?**Does it adequately address:

 a. Sample collection procedures

 b. Sample preservation and shipment

 c. Analytical procedures

 d. Chain of custody procedures

 YES X NO

 YES X NO
- 6. Does the facility have an adequate GW Quality Assessment Plan Outline?

7. If the company is performing an alternate groundwater monitoring program or a partial waiver monitoring program, is an approved Sampling and Analysis Plan followed? N/A X YES NO

NOTE: Complete the "GW Sampling Procedures Checklist", when observing well sampling procedures or co-sampling monitor wells at the facility.

8.	Have records been kept of:			
	a. Analyses for ground water parameters?		yes <u>×</u>	NO
	b. Calculations of means and variances?	NA	YES	МО
	c. Water surface elevations taken at each well sampling ev	ent?	YES	NO.×
	d. Calculations of significant differences?	N/A <u>×</u>	YES	NO
	e. Analyses of duplicate samples for contamination confirmation?	N/A ×	YES	NO
	f. Analyses of samples taken as a result of implementing the Ground Water Quality Assessment Plan?	N/A_ <u>×</u>	YES	NO
	g. Results of Ground Water Quality Assessment Plan?	N/A X	YES	NO
	(1). Rates of Migration?		YES	100
	(2). Concentration of hazardous waste and/or constituents thereof?		YES	NO
	(3). Analyses of quarterly ground water samples?		YES	NO
	h. Copies of annual reports of the groundwater monitoring program?	M/A.	YES	NO
9.	Are self-reporting data being submitted on the appropriate TWC forms?	··	YES	NO_X
NO?	TE: Complete the remaining checklists as applicable to each	h Waste M	lanag emer	nt Area
Cor	ments: 8.C. Woter surface elevations were n	ot Dro	sided	
	for the November 29, 1985 Sampling event.			
				
	9. W.J. Smith was supposedly not award	e of		
	Self-reporting requirements prior to the Enforce		terence	<u>,</u>
	on July 11,1986. Only one set of analyses for			
	wells exists (11-29-85). This late was not se			2
	was submitted during the enforcement conferen	ce on J	uly 11,198	36.

FIRST YEAR BACKGROUND SAMPLING

Waste Management	Area(s)	w.s.	Sm th	Dlant	Sire	٤	(5;0	a ()	
	_			•			Comment		below)

1.	Are all samples analyzed for: (See Comment I on following pa	ge)
	EPA Drinking Water Standards?	YES X V NO
	Ground water quality parameters?	YES XV NO
	Contamination indicator parameters?	YES XV NO
2.	Are 4 replicate measurements of contamination indicator parameters made for each well sample?	yes × no
3.	Are ground water surface elevations determined water elevation	YES X NO
		,
4.	Briefly explain why facility is performing first year sampling	at this time:
4.	W.J. Smith submitted a Part A application in Oughs	st 1980.
_	because of the inactive Status of the MKT area (Size	_
	ne decision to reclaim the storage area and separator	*
	was issued. The facility was grouted interim status	
	osure. a closure plan which included proposed monie	_
	or the W.J. Smith plant site (Site!) was submitted in Dec	
	he TWC approved these plans on June 12, 1984 and provid	_
_6	ecommendations for monitor well installations. These	weils
<u> </u>	sere installed in October, 1985. Despite previous TWC	directives,
	resc wells were not completed in the appermost aguil	
	1st documented sampling of these wells was on Novemb	
· LL	5	

^{***} An entry in this column indicates corrective action/response is needed.

comments: First year Background Sampling:
1. The Grat Sampling event conclusied on Lovember 29, 1995
included analyses for only phenols, naprhalene authracene,
and chemical oxygen demand. During the CME, samples
were taken for the required background parameters. However,
until these analyses are received it will not be known if
the required parameters were analyzed, or if the required
replicates were measured.
3. Ground water surface elevations were not determined during
the Movember 29, 1985 sampling event. Water levels were measured
during the CME conducted on July 23, 1986, but all well elevations
are currently being re-surveyed due to obvious discrepancies.
· · · · · · · · · · · · · · · · · · ·

t .

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'WC	Reg.	No. 31332

GW SEMI-ANNUAL DETECTION MONITORING

Wast	e Management Area(s)		·	
ν.	Was the first year background sampling program			***
	adequately completed?		YES	NO
~	8ma 4m23m mam2m2 and a m2 a m			
2	Are wells sampled and analyzed annually for ground water quality parameters?		YES	NO
	• •			<u> </u>
<i>7</i> 8.	a. Are wells sampled and analyzed semi-annually for contamination indicator parameters?		VIDO	NO
	tor containmacton indicator parameters:		YES	NO
	b. Are 4 replicate measurements of indicator parameters			
	made for each upgradient and downgradient well sample?		YES	NO
s.	Are ground water surface elevations			
	determined at each well for each sampling event?		YES	NO
5.	Were ground water surface elevations evaluated annually			
	to determine whether monitoring wells are properly placed	?	YES	ио
ø.	Were changes to the monitoring system necessary			
	to maintain compliance with 335.192(a)?	YES	NO	
	If yes, describe in comments.			
1.	Are statistical comparisons, using the Student's t-test			
	at the 0.01 level of significance, performed?		YES	NO
	a. Between the initial background mean			
	and mean of current upgradient well analyses		Mes	NO
	for each contamination indicator parameter?		YES	NO
	b. Between the initial background mean			
	and mean of current downgradient well analyses for each contamination indicator parameter?		YES	NO
	·			
,84	If there is more than one upgradient well, are all the baresulting in one background mean with variance for each of			
	or is each upgradient well mean and variance compared se			
	gradient well analyses?		_	
	<u>Circle</u> the appropriate phrase.			
~	Name almidiant formance (
9.	Have significant increases (or pH decreases) in contamination indicator parameters been found in the:			
	•			
	a. Upgradient wells?	YES	. NO	
	b. If yes, did the company report the upgradient			
	well change on the annual report form?		YES	MO
	C. Downgradient wells?	YES	NO	
***	An entry in this column indicates corrective action/response	onse is	needed.	
	Page 1 of 2			W1 /86

yo.	were detected, did the company:	ilent wel	.15	
	a. Resample the "affected" well(s), split the sample in two, and re-analyze for the parameter(s) that showed significant difference?	N/A	YES	*** NO
	b. Confirm the significant difference?	N/A	YES	мо
	c. Notify the Executive Director within 7 days of confirmation?	N/A	YES	мо
\$	d. Submit a certified Ground Water Quality Assessment Plan within 15 days of notifying the Executive Director?	N/A	YES	NO
и.	Has the facility resumed detection monitoring at this WMA after determining in an assessment that no hazardous waste or constituents were detected in ground water?	N/A	YES	NO
	b. If yes, when was detection monitoring resumed?			
	NOTE: Complete "GW Assessment Monitoring Checklist was resumed since the last inspection.	" if det	tection (monitoring
だ .	Has the facility modified the t-test procedure to reduce the occurence of "false positive" statistical indications?	YES	NO	
	b. Describe changes in comments or include attachments	s.		
	c. Date of TWC approval			
18.	Has the facility substituted other parameters in place of pH, conductivity, TOC and/or TOX?	YES	NO	
	b. List the parameters:			
	c. Date of TWC approval			
Comm	nonts.			
COM	ments:			
				
				
				
				

OW ASSESSMENT MONITORING

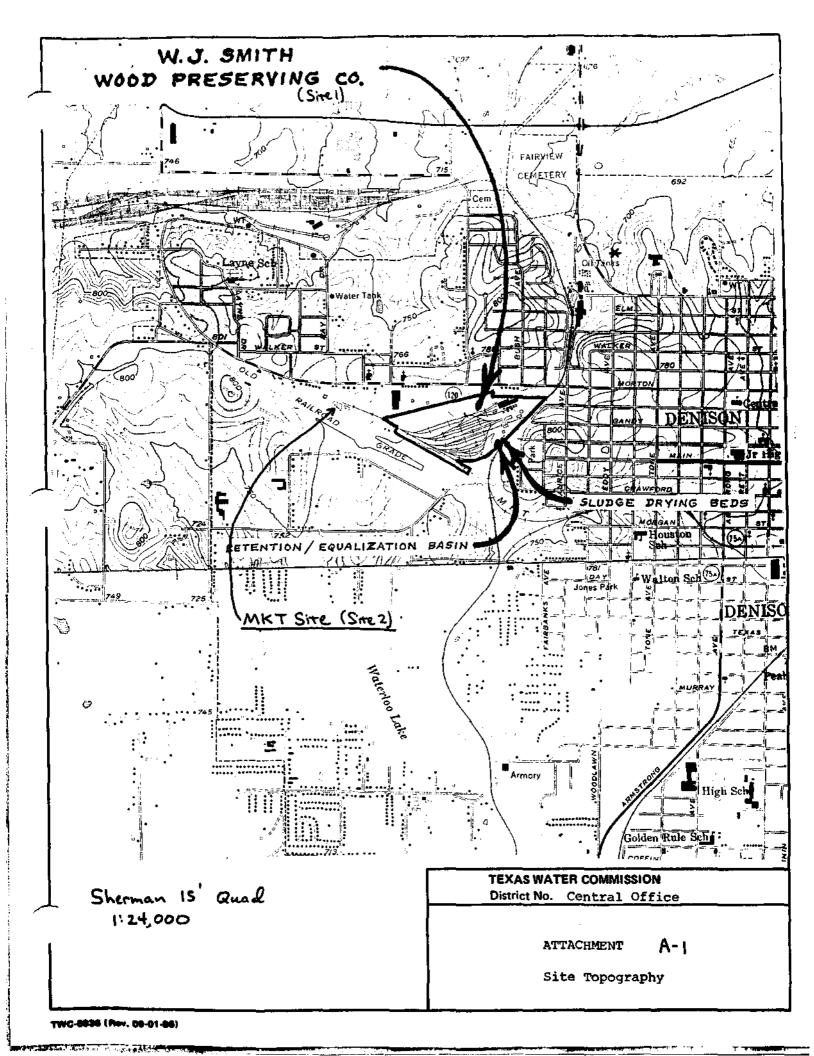
****	see management Aten (5)			
χ.	Has the facility started to implement an approved Ground Water Quality Assessment Plan? Give date plan was started	N/A	YES	*** NO
% .	If the plan is in progress, give projected completic describe actions to date:	n date		and
	a. Is the facility on schedule?	N/A	YES	NO
X.	If the plan has been completed, give date of Ground Water Quality Assessment report:			
ĸ.	Do results indicate that hazardous waste or constituents have been detected?	N/A	YES	NO
	a. If yes, has a Quarterly Assessment Monitoring Program been implemented?		YES	NO
	b. If no, was detection monitoring reinstated?		YES	NO
	c. If the facility has not responded appropriately,	explain why	in comm	ents.
	NOTE: If answer to 4b is yes, Stop Here.			
8.	List the hazardous waste constituents detected:			
				
		• • • • • • • • • • • • • • • • • • • •		
%.	Has the facility Sampling and Analysis Plan been revised to include these parameters?	N/A	YES	NO
7.	Quarterly, since completion of the assessment, has the facility continued to:			
	a. Sample and analyze for hazardous waste or constituents?	N/A	YES	NO
	b. Determine rate and extent of migration of hazardous waste or constituents?	N/A	YES	ио

*** An entry in this column indicates corrective action/response is needed. Page 1 of 2 $\,$

8.	Yearly, has the facility reported the results of the asses (with annual waste report), to include the calculated (or of migration of hazardous waste or constituents	sment p measure	rogram d) rate	***
	in ground water during the reporting period?	N/A	YES	
9⁄.	If t-test failures have occurred at the WMA during its post care period, has facility complied with:	st-closu	re	
	a. Retesting to confirm t-test failures?	N/A	YES_	NO
	b. Notifying TWC within 7 days of confirmation?	N/A	YES	NO
	c. Submittal of approved plan?	N/A	YES	NO
	d. Completion of approved plan?	N/A	YES	NO
16.	Does the WMA contain a "regulated unit"* subject to 40 CFR 264 Subpart F compliance monitoring requirements?	N/A	YES	NO
	a. If yes, has the assessment detected hazardous waste or constituents in ground water at this WMA?	N/A	YES_	NO
	b. If yes has the facility sampled and analyzed for all			
	hazardous waste constituents (Appendix VIII, 40 CFR 20 to characterize the plume in accordance with	51)		
		51) N/A	YES	NO
	to characterize the plume in accordance with	N/A		
Com	to characterize the plume in accordance with with 40 CFR270.14(c)(4)? c. If no, report this information to the TWC Groundwater	N/A		
Com	to characterize the plume in accordance with with 40 CFR270.14(c)(4)?c. If no, report this information to the TWC Groundwater in the Central Office.	N/A		
Cost	to characterize the plume in accordance with with 40 CFR270.14(c)(4)?c. If no, report this information to the TWC Groundwater in the Central Office.	N/A		
Com	to characterize the plume in accordance with with 40 CFR270.14(c)(4)?c. If no, report this information to the TWC Groundwater in the Central Office.	N/A		
Com	to characterize the plume in accordance with with 40 CFR270.14(c)(4)?c. If no, report this information to the TWC Groundwater in the Central Office.	N/A		
Con	to characterize the plume in accordance with with 40 CFR270.14(c)(4)?c. If no, report this information to the TWC Groundwater in the Central Office.	N/A		
Cost	to characterize the plume in accordance with with 40 CFR270.14(c)(4)?c. If no, report this information to the TWC Groundwater in the Central Office.	N/A		

^{*} Land Disposal facility that received hazardous waste after July 26, 1982. *** An entry in this column indicates corrective action/response is needed.

Section A Attachments - Monitoring System



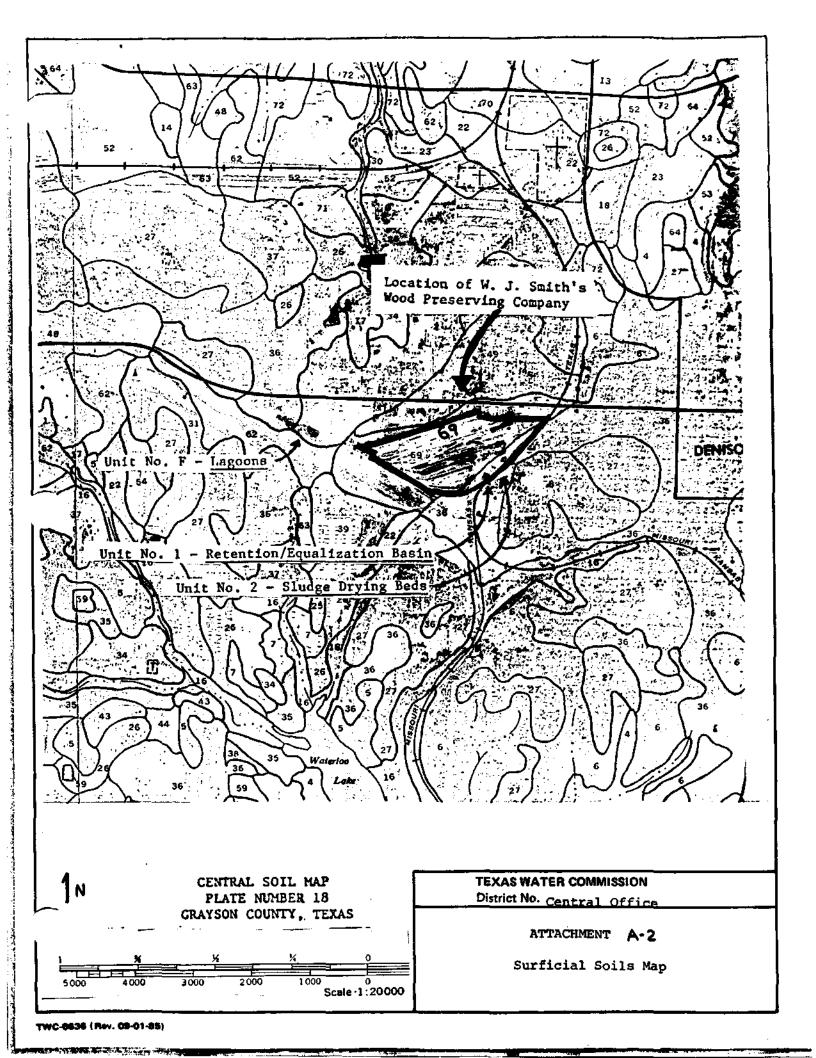


Table ____ == ENGINEERING. INDEX PROPERTIES*>3

				CLASSIFI	CATION	PERCENT PASSING	L IQUIO	PLASTICITY	
	SOIL NAME	<u>DEPTH</u>	USDA TEXTURE	UNIFIED	<u>AASHTO</u>	200 SIEVE	LIMIT	LIMIT	
	(27) Crosstell	0-3"	Fine Sandy Loam	SM, ML, SM-SC, CL-ML	A-2-4 A-4	28-60	<31	NP-7	
		3"-43"	Clay	CH, CL	A-7-6	51-75	42-60	25-40	
		43"-60"	Stratified Clay to weathered bedrock	CH, CL, SC	A-7-6 A-6	36-88	35-55	15-35	
	(36) Gasil	0-10	Loamy Fine Sand	SM, SM-SC	A-2-4, A-4	20-40	<20	NP-4	
ģ		10-66	Sandy Clay Loam Loam, Fine Sandy Loam	CL, SC, CL-ML SM-SC	A-6, A-4	36-71	22-44	7-20	
	(62) Sanger	0-23"	Clay .	CH ,	A-7-6	75-95	51-70	28-42	
		23-49	Clay-Silt Clay	CH, CL	A-7-6; A-6	85-100	40-60	20-36	
		49-65	Clay-Silt Clay	CH, CL	A-7-6; A-6	85-100	40-55	20-35	

^{*}Source: United States Department of Agriculture Soil Conservation Service.

I Unit #69 is designated as Urban Land, installation of works or Structures does not allow identification or classification of soils.

Table 11 -- PHYSICAL AND CHEMICAL PROPERTIES

SOIL NAME	<u>ДЕРТН</u> (IU)	CLAYC2mm (PCY)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (pH)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K T	WIND ERODIBILITY GROUP	ORGANIC MATTER (PCT)
(27) Crosstell	0-3	5-15	0.6 - 2.0	0.10 - 0.14	5.6 - 7.8	LOW	0.43 3	3	4 1
	3-43	40-60	₹ 0.06	0.14 - 0.18	4.5 - 8.4	HIGH	0.37 3		
	43-60	40-60	₹ 0.06	0.14 - 0.18	6.6 - 8.4	HIGH	0.37		
(36) Gasil	0-10	5-12	6.0 - 2.0	0.07 - 0.11	6.1 - 7.8	FOR	0.20 5	2	4 1
	10-66	15-35	0.6 - 2.0	0.12 - 0.19	5.1 - 6.5	MODERATE	0.32		
(62) Sanger	0-23	40-60	< 0.06	0.12 - 0.18	7.4 - 8.4	HIGH	0.32 5		1 - 3
	23-49	40-60	< 0.06	0.12 - 0.18	7.9 - 8.4	HIGH	0.32		
	49-65	40-60	< 0.06	0.12 - 0.18	7.9 - 8.4	HIGH	0.32		

^{*}Source: United States Department of Agriculture Soil Conservation Service.

1 -1		ا تسل					$\overline{\Box}$	ŗ	نــز	i.i	i_j	\Box	$\hat{\mathbf{L}}(\boldsymbol{J})$	i1	$\tilde{\mathbf{r}}^{*}(\mathbf{v})$	7	1.
	لسا	ء لية	سا ب			فسنا	إهسيا	هـــا	نسا	فسسة		غسنا	لسنا		11		,

Table _____ III __ -- SOIL AND WATER FEATURES *2

	HYDROLOGIC*1	FLOODING				H WATER TAI	BEDROCK		
SOIL NAME		FREQUENCY	DURATION	HONTH	DEPTH	KIND	MONTHS	DEPTH	HARDNESS
(27) Crosstell	0	None	••		> 6.0'			>60'	
(36) Gasil	8	None	••		>6.0'			>60'	••
(62) Sanger	D	None	+-		>6.0			>60'	•-

^{*1}HYDROLOGIC SOIL GROUPS

- A Soils having a high infiltration rate when thoroughly wet and having a low rumoff potential. They are mainly deep, well drained, and sandy or gravelly.
- Other Extreme: D Soils having a very slow infiltration rate and thus a high runoff potential. They have a clay-pan or clay layer at or near the surface, have a permanent high water table, or are shallow over nearly impervious bedrock or other material.
 - *2 Source: United States Department of Agriculture Soil Conservation Service.

Attachment A-3

SITE DRAINAGE - W.J. SMITH FACILITY

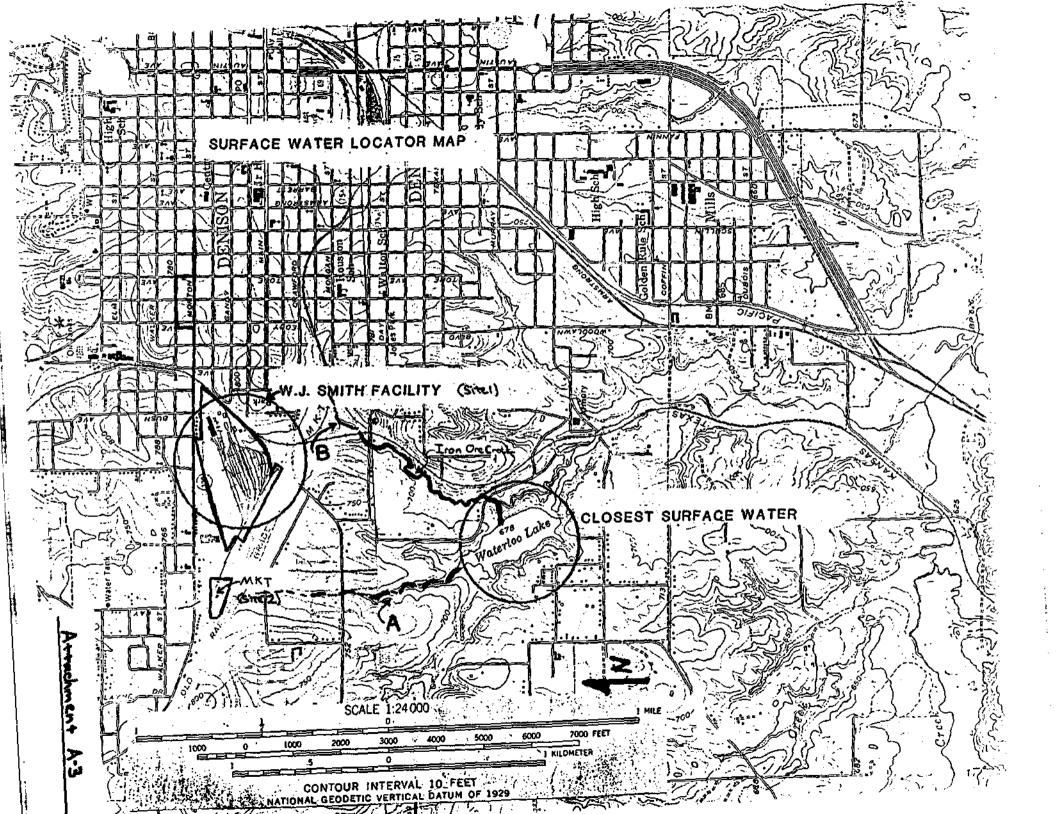
The W. J. Smith Facility (Site 1) lies within the drainage area of Iron Ore Creek in the upper end of the watershed. The drainage area directly above W. J. Smith is minimal with all water collected above Morton Street transferred either easterly or westerly around the W. J. Smith facility.

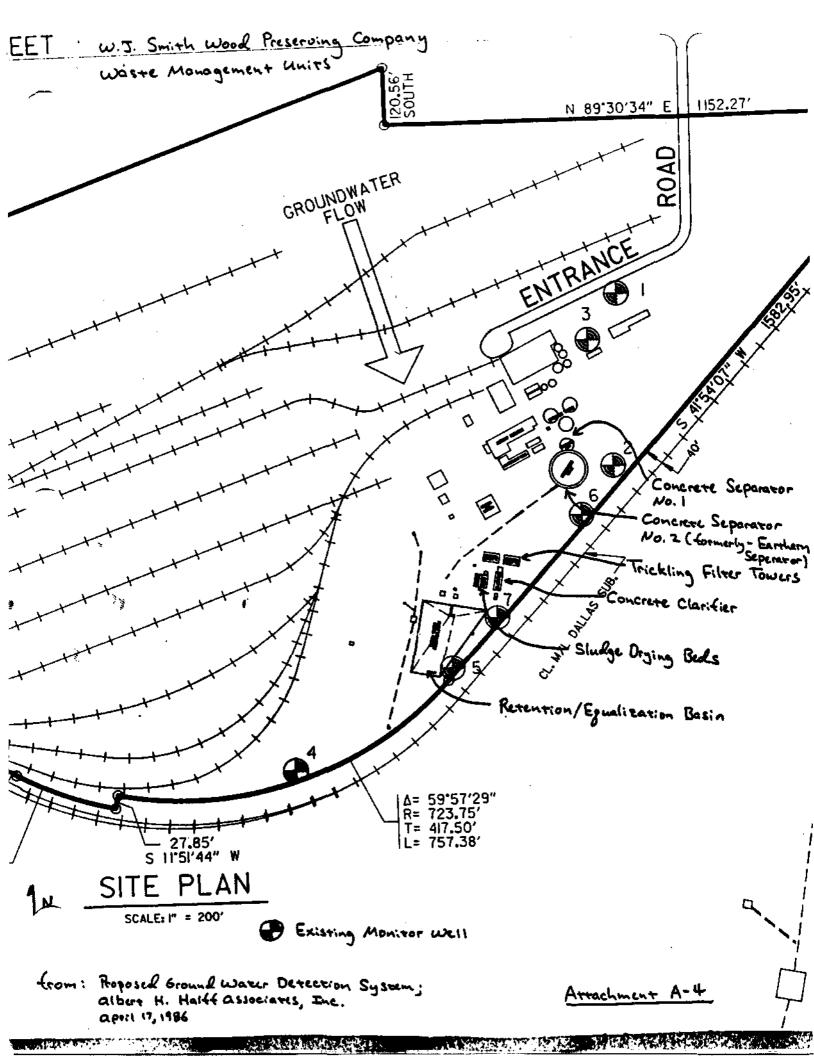
Drainage below Morton Street is sheet flow and is directed in either an easterly or westerly direction on the W. J. Smith property. Water directed in a westerly direction eventually turns southward and is transported off-site in the unnamed creek labeled "A" (see attached). Slope of the property through this area ranges from 1 to 1.5%. Water flow easterly is collected in a minor swale and is transported in a southwesterly direction parallel to the MKT spur. Slope of the property through this area is about 1.25%. This unnamed creek labeled "B" ends up as the headwaters of Iron Ore Creek.

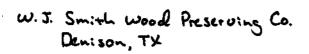
The ultimate disposition of drainage water is Waterloo Lake which is located approximately two miles south-southwest of the W. J. Smith site (see Figure 1).

Maximum elevation of the site 765 feet MSL at the northern most point, and the minimum elevation is 740 feet MSL at the southernmost point prior to exiting the site.

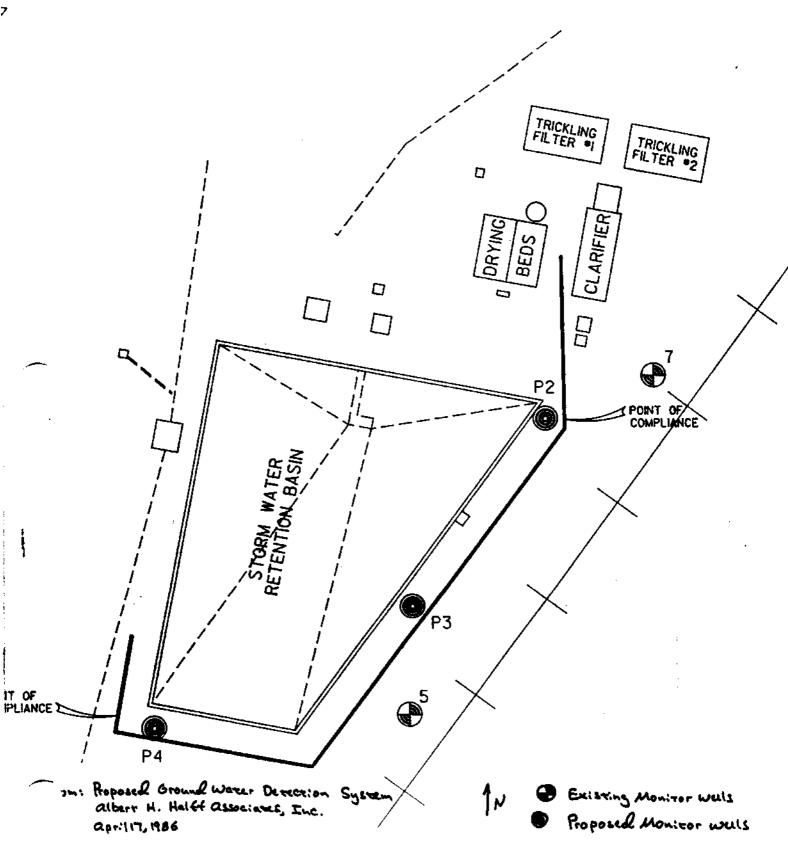
The MKT site (Site 2) is located directly west of the main plant site (Site 1). This area consists of a series of seven wastewater lagoons which have been closed. Runoff from above this area flows through a concrete culvert buried through the lagoon area to the unnamed creek shown as "A" (see attachment). This creek flows to Waterloo Lake.







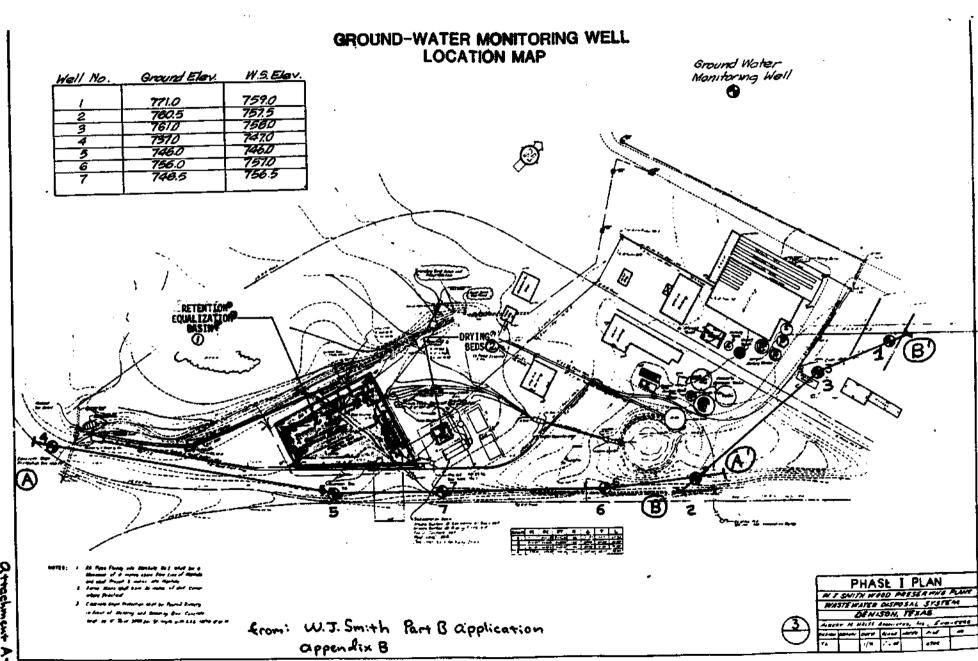




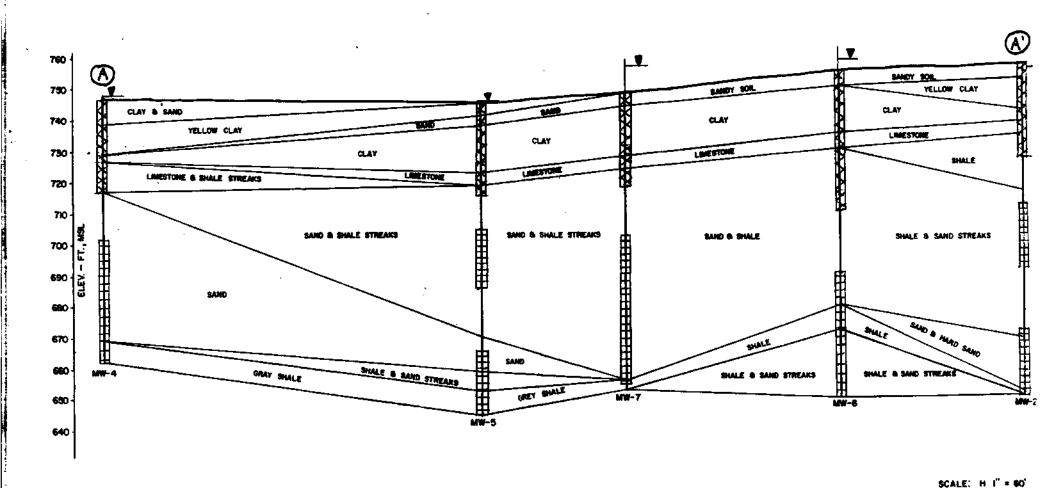
WASTEWATER TREATMENT FACILITIES

SCALE: !" = 40'

Attachment A-5



STEENINGS.



2 to C.

from: W.J. Smith Part B application appendix B

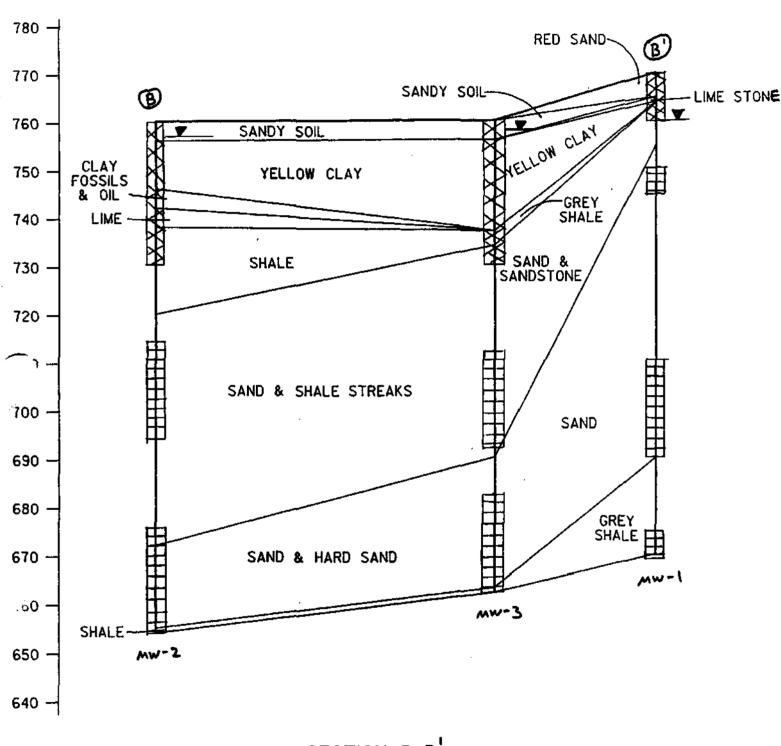
SECTION A-A

FIG. 14

water level

Cemented Zone | well screen location

water levels and well construction details adapted from W.J. Smith Proposed Groundwater Desection Monisoring Rogram april, 1986



SECTION B-B

water level Capprox.)

from: W.J. Smith Part B application appendix B

attachment A-8

Cemented Zone | well screen location

water levels and well construction V = 1''=60' oferails adapted from w.T. Smith Roposed Groundwater Detection Monitoring Program april, 1986.

arrechment 4-8

MKT Site Description

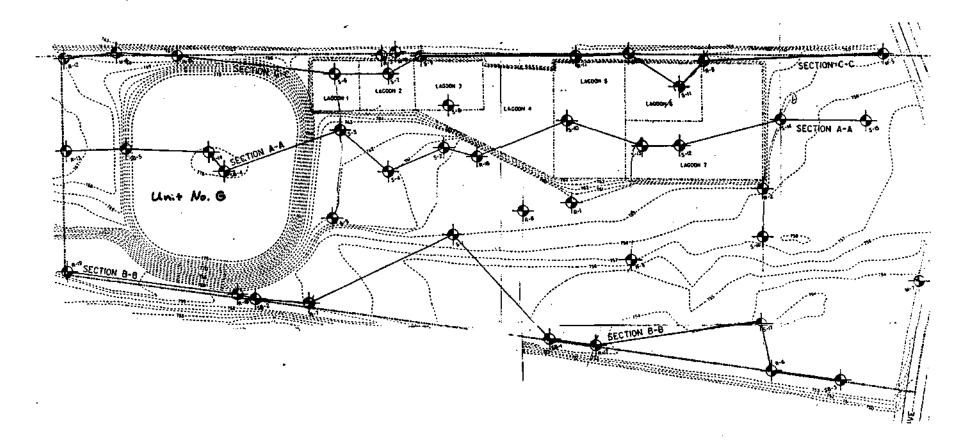
1. Lagoons "Earthen Basins" Part B Unit No. F

The lagoons No. 1 through No. 7 on the following page were operated by W. J. Smith from 1909 until 1969. These lagoons cover approximately 3.5 acres and are unlined, excavated pits. The lagoons are located approximately 150 feet west of W. J. Smith on property owned by Missouri Kansas Texas (MKT) Railroad. Recent investigations have documented soils contamination by phenols at depths of 43 feet beneath the lagoons. The lagoons are currently undergoing closure through enforcement action. No ground water monitoring system currently exists for these lagoons.

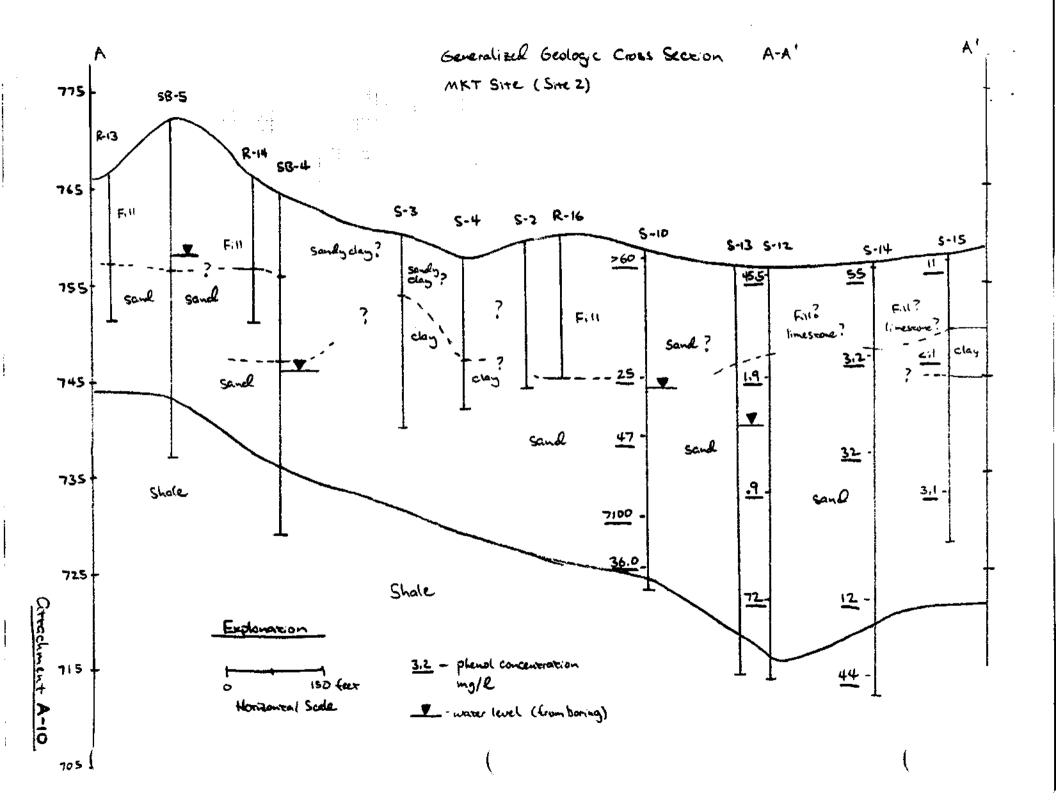
2. Disposal Pits and Mounds - Part B Unit No. G

The 3.8 acre landfill located immediately west of lagoon No. 1 has been constructed with a compacted clay liner to receive the stabilized wastes from closure of lagoons No. 1 through No. 7. This landfill is currently full and has been capped and vegetated. An additional landfill cell will be constructed following determination of the total volume of sludge and underlying soils which must be removed from the lagoons.

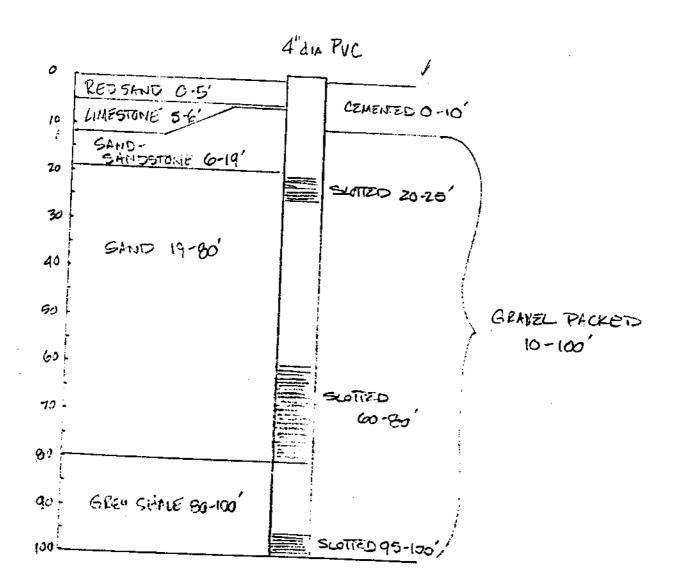
W.J. Smith Lagoous "Earthern Basins" MKT Site



from: W.J. Smith Closure Plan Update; albert H. Halffassociates, Inc.
Jan. 20, 1986



ATTACHMENT A-11 Well Construction Diagrams



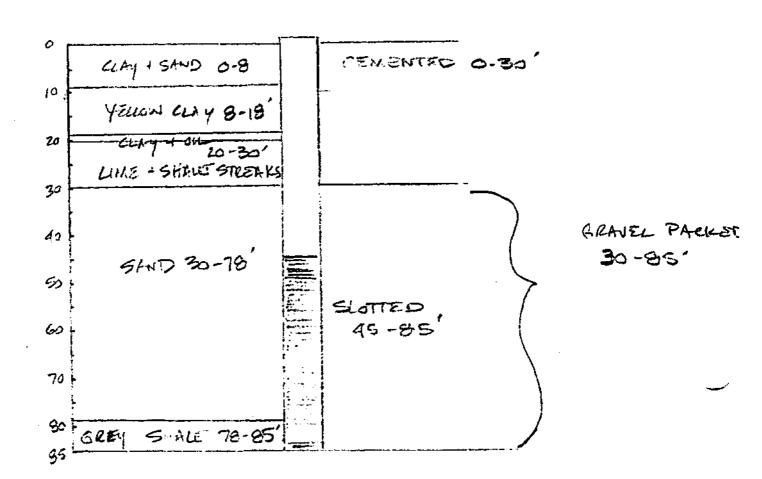
	ALBERT II HALFF ASSOCIATES, INC.	Mada by	0.10	AVO Tes	6 Dept
	ENGINEERS AND SCIENTISES	Checked by	Date	Sheet No	
F 91 167.	2000 1000 100 100 100 100 100 100 100	T Kumi dla Dro	- 1		

4" DIL PVC 709501L 0-4" CEMENTED 0-30' YELLOW CLEY 4-14 10 CLAY W/ TOSSILS 14-18 20 SHUE 72-40 30 40 GRAVEL PACKED SLOTTED 30-106' 50 46-66 SMO W. S. L. E STREAKS = 43-88 70 80 F SLOTTED 90 86-106' SAND + HAROSAND 1001 39-10S 106 SHALE 105-106'

ALBERT II HALFE ASSOCIATES AND	Made by	Dale AVO Test Dept		
· · · · · · · · · · · · · · · · · · ·	Checked by	Date	Sheet No	
" Monnegary Wall " 3	W.J.SIMIY NOOD	Presure	11116 Co.	

4" DIL PVC Tochail 0-4' CEMENTED 0-30' 10 YEUDW CLMY 4-23' 70 ale situa 23.26' 30 SHUD MO SHALF STREAMS 40 26-70' GRAVEL PACKED 50 30-98' SLOTTED 48-68 60 -70 SAND 70-97' 80 · SLOTTED 90 : 73-93' 98

GREY SHALE 97-98'



	ALBERT H. HALFF ASSOCIATES, INC.	Mede by	0.10	Avis fact Gept
	ENGANDES AND SCHNIESTS	Checked by	0.10	Setteman Miss
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EXTENDED CHENCE 10 TO COUTION TEAM YELLOW CLAY 0-4' SAND 4-7' CEMENTED 0 - 20' 10 CLAY 7-19' 20 CLAY + CIL 19-22? LIMESTONZ ZZ-Z6' 30 SAND W/ 40 SPACE STREET ES SETTE 26-15 50 40-601 GLAVEL PICKED 20-1001 60 13 20 SAND 75-36 S611213 SHILE WISHID STREAKS 80-100' SHIE 90-100

51-07 TO 25016 4-5 CEMENTIO G.45' 10 CLA 5-16' cir: - all- 16-20' 20 LIMESTONZ ZO-25' SHIELD SMO 30 1 CILY SHA - TSANT 50 SHIE AND SANG STUZAKS 60 L 33.15' GRAVEL PACI > 70 45 - 105 SUSTITUTE 30 SHALE 75-89' 65-105 99 SAND STREAKS 100 MUD SHINE 99-105 115

ALBERT H HALFE ASSOCIATES, INC.

ENGINEERS AND SCIENTISTS

AND PROPERTY OF THE STATE OF THE STAT

EXTINDED CASHING & to CONTICLOL TLOW SANDY TOPECIE 0-4 CEMENTED 0-20 10 : CLAY 4-17' 20 20-24 30 40 5100 1 SINE 21-92 50 GRAVEL PACKED 60 30.95 70 SLOTED 55-45 وري 90 SHATE 92-95'

Attachment A-12. Table of Well Construction Details

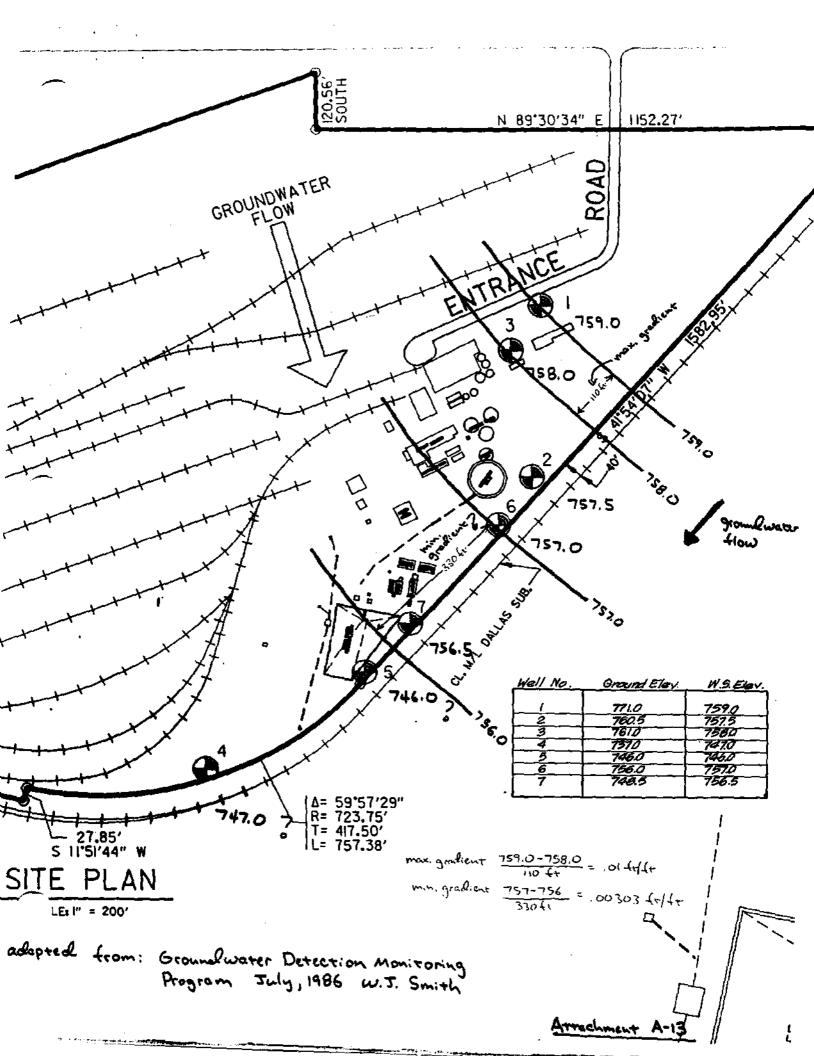
								
Well Number	١	2_	3	4	5	6	7	
Hole diameter	8"	8.,	8"	6 "	8"	8.	8"	
Total depth	100	106	98'	88,	100'	105	95'	•
Drill method	mud rotary	rotary	mul	mull rotary	rotery	mul	rotary	
Date drilled	10-17-85	10-18-85	10-25-85	10-23-85	10-24-85	10-25-85	10-26-85	-
Casing I.D.	41."	4	47.	45,	45.	4년"	47,	
Casing type	PUC	Puc	Puc	Puc	PUC	PUC	PUC	
How joined	glued	gined	glued	gined	glued	glued	gined	
Stick-up length	N.A. 3	N.A.	N.A.	210'	3 10°	≈ M.A.	≥8'	
T.O.CMSL	N.A. (3)	N.A.	N.A.	N.A.	N.A.	N.A.	MA.	
Ground level-MSL	סיונג.	760.5	761.0	737.0	746.0	756.0	748.5	
Capped/Lockable	capped,	capped, no lock	capped, no lock	copped, no lock	capped,	capped, no lock	capped, no lock	
Surface pad size	hone	none	none	none	none	none	none	
Depth of surface seal	hone	none	none	none	hone	none	none	
Annulus Fill	cement	cement	cement	cement	coment	coment	Cement	
Depth-annulus seal	₹ 10'	₹ 30'	× 30'	2 30'	₹ 30°	₹ 451	≥ 30 '	
Depth-gravel pack	101	30'	30'	30'	30'	45'	30'	
tength-gravel pack	40,	76'	68'	B\$ '	70'	60'	65'	
Size-gravel pack	pea	pea gravel	pea grovel	pea. gravel	PEA grove(pea gravel	pea growd	
Depth to screen		1, 46' 2, \$6'	i, 481 2.19'	45'	40'	68'	ss'	
Screen I.D./slot	4t"/ww	47/		41/ma.	42"/MA	43 /M.A.	45 /MA	
Screen type	PUC	Puc	Puc	Puc	PUC	PUC	PUC	
Screen length	1. 5' 2. 20' 3. 5'	1. 20° 2. 20°	1. 20' 2. 20'	40'	i. 20' 2. 20'	40'	401	
Blank length	i, 35'	20'	10'	None	20	none	hone	
Development Method	bailer	bailer	bailer	bailer	bailer	bailer	bailer	
1		0 0			200			

1 These elevations are being re-surveyed 3 No bentonite used 3 Multiple screens (4) Field slotted

Comments: a. hole diameter too small b. casing should not be glad c. wells not adequately

surveyed d. no well locks e. no benonite seals t. screens too extensive / not machined

A-12



Estimated Linear Velocity for Paw Paw Formation

$$\bar{v} = \frac{ki}{h}$$

where:

$$\bar{v}_{min} = \frac{(3.49pd/4r^2)(.00303.4r/4r)}{.20}$$
= .0515 (+/day
= 18.8 (+/year

Note: values for hydraulic conductivity (k) were obtained from laboratory testing of soil boring samples (See page 48 of the W.T. Smith Part Bapplication). The average value of 1.6×10 cm/sec for the tan fine clayey sand was used for the calculations above.

TEXAS WATER COMMISSION

District No. Central Office

ATTACHMENT A-14

Horizontal Ground Water Flow Velocity
Calculations

Section B Attachments - Sampling Procedures

ATTACHMENT B-1

W. J. Smith Sampling Plan

W. J. SMITH WOOD PRESERVING CO. MONITORING WELL SAMPLING PROTOCOL

PURPOSE: Groundwater monitoring wells are sampled and analyzed in compliance with 40 CFR 265.92 under the Resource Conservation and Recovery Act (RCRA). Under this authority, all hazardous waste management facilities are required to monitor the quality of groundwater beneath unprotected processes.

TYPES OF ANALYSIS REQUIRED:

CATEGORY I

40 CFR 265.92 (b)(1)

Arsenic Barium Cadmum Chromium Fluoride Lead Mercury Nitrate (as N) Selenium Silver Endrin Lindane Methoxychlor Toxaphene 2. 4- D 2, 4, 5-TP Silvex Radium Gross Alpha Gross Beta Turbidity (Surface waters only) Coliform Bacteria

CATEGORY II

40 CFR 265.92 (b) (2)

Chloride Iron Manganese Phenols Sodium Sulfate

CATEGORY III

40 CFR 265.92 (b) (3)

рħ Specific Conductance Total Organic Carbon (TOC) Total Organic Halogen (TOX) Four (4) replicate samples analyzed for each sampling period from the upgradient well (Well #1).

SAMPLING FREQUENCY:

Samples should be collected and analyzed quarterly for the first year after completion.

Following the first year, Category II analyses should be performed at least annually. Category III analyses should be performed at least semi-annually.

The groundwater surface elevation at each monitoring well must be determined each time a well is sampled.

SAMPLE COLLECTION AND STORAGE:

Category I Analyses, conducted to establish initial background water quality, shall be collected as follows:

METALS

As Ba Cđ Cr Fe Ηg Se Ag

- * 1-liter amber glass bottle * preserved 2/ HNO3 to <2 pH * Cooled to 4° C

RADIUM GROSS ALPHA GROSS BETA

ORGANICS

Endrin Lindane Methoxychlor 2, 4, -D 2, 4, 5-TP Silve

- *1-Liter amber glass bottle
- *Unpreserved
- * Cooled to 4° C
- *Analyzed within 24 hours

COLIFORM BACTERIA

* Bacteria Sampler (Provided by Lab)
* Cooled to 4° C

* Analyzed within 24 hrs.

Category II analyses, conducted to provide on-going water quality monitoring, shall be collected as follows:

METALS

Fe

Mn

Na

(as with Category I Organics)

(as with Category I Metals)

PHENOLS

* 1-Liter Amber Glass Bottle

* Preserved w/H₂SO₄ to <2 pH * Coded to 4 C

* Analyzed within 48 hrs.

Category III analyses, conducted to provide indication of groundwater contamination, shall be collected as follows:

Ηg Specific Conductance · (tested on-site or sampled with Category I Organics)

TOC

(as with Category II-Phenols)

TOX

*40 ml Volatile Organic Analysis (VOA) vial *Cooled to 4° C

SAMPLE VOLUME REQUIREMENTS:

CATEGORY	Ι	
----------	---	--

1 Liter Metals 1 Liter Organics 100 ml Bacteria

CATEGORY II

1 Liter Metals (unless sampled w/Category I)

1 Liter Ionic Salts (unless sampled w/Category I)

1 Liter phenols

CATEGORY III

1 Liter pH /Sp Cond (unless sampled w/Category III)

1 Liter TOC (unless sampled w/phenols)

40 ml VOA for TOX

Therefore, for combined samples in all three categories, the sample volumes and types are as outlined below:

All metals/Radioactivity

1 Liter 1 Liter

All Organics Bacteria

100 ml BAC-T

Phenois/TOC

1 Liter

XOT

40 m1 VOA

For subsequent analyses, involving only Category III and Category III tests, volumes and types are outlined below:

Metals

1 Liter

C1. SO₄, pH. Sp. Cond. Pheno1s/TOC

1 Liter

1 Liter

TOX

40 ml VOA

MATERIALS NEEDED:

- I. RUBBER SURGICAL GLOVES
- II. COTTON WORK GLOVES
- III. TEMPERATURE/PH METER
 - IV. CONDUCTIVITY METER
 - V. INDIVIDUAL TEFLON BAILERS FOR EACH SAMPLE POINT
- VI. PURGING DEVICE (PUMP WITH INDIVIDUAL HOSES FOR EACH SAMPLE POINT)
- VII. TWINE (NYLON)
- VIII. 10 GAL. WASH TUB (2)
 - IX. 5 GAL, PRESSURE SPRAYER
 - X. WATER LEVEL INDICATOR
 - XI. SOAP (DRY) AND WATER [WASH TUB]
- XII. RINSE WATER [WASH TUB]
- XIII. DISTILLED WATER [PRESSURE SPRAYER]
- XIV. DEIONIZED WATER [FOR FINAL RINSE]
- XV. SCRUB BRUSHES (2)
- XVI. SAMPLE CONTAINERS (AS NECESSARY ACCORDING TO TEST SCHEDULE)
- XVII. ICE, 10 LBS. BAG
- XVIII. COOLER, 10 GAL. CAPACITY (MINIMUM)

- MONITOR WELL SAMPLING PROTOCOL -

PROCEDURE:

STEP I - PREPARATION OF SAMPLING EQUIPMENT

- A. DECONTAMINATION OF BAILERS AND/OR SUCTION HOSE
- B. DECONTAMINATION OF TEMP./pH METER, CONDUCTIVITY METER AND WATER LEVEL INDICATOR.
- C. PREPARATION BAILERS

*DECONTAMINATION PROCESS -

- A. One wash tub should be filled with tap water, the other with tap water and a scoop of dry soap. The pressure sprayer should be filled with distilled water. A container of deionized water should be on hand for final rinsing.
- B. Each piece of equipment should be washed with the brushes in each of the wash tub. This washing should be followed by a pressure sprayer (distilled water) rinse and a deionized water rinse.
- C. Temp/pH probe, conductivity probe, and water level indicator probe and cable should be decontaminated as all other equipment.
- D. Following decontamination Steps A and B, each piece of equipment is ready for use. Each of these steps should take place between uses at each individual well.
- E. Twine should be tied to each bailer after the decontamination process and should be discarded after sample is collected.
- F. At the end of sampling, Steps A and B should be performed again; each piece of equipment should be wrapped in plastic bags or aluminum foil after decontamination.

STEP II - SAMPLING METRODS

A. It is important to purge the well (discharge any standing water) to obtain a true groundwater sample. Discharge of two (2) or three (3) well volumes is preferable. This will be done by bailing, air drive pump or pitcher pump.

Figure 1 is the location map for groundwater monitoring wells at the site. Table 1 identifies the well volume and the volume required to triple purge the well. Figure 2 is a graph showing pumping times at different flow rates to achieve the purge volume.

- B. Chemically inert bailers (teflon or stainless steel) must be used for organics.
- C. For each sample taken observations and/or readings should be taken for each of the following parameters:
 - 1. pH
 - 2. Temperature
 - 3. Conductivity
 - 4. Color
 - 5. Odor
 - 6. Turbidity
- D. Field blanks (rinsate blanks) of contaminant-free water and duplicate samples from one station are required for quality control.

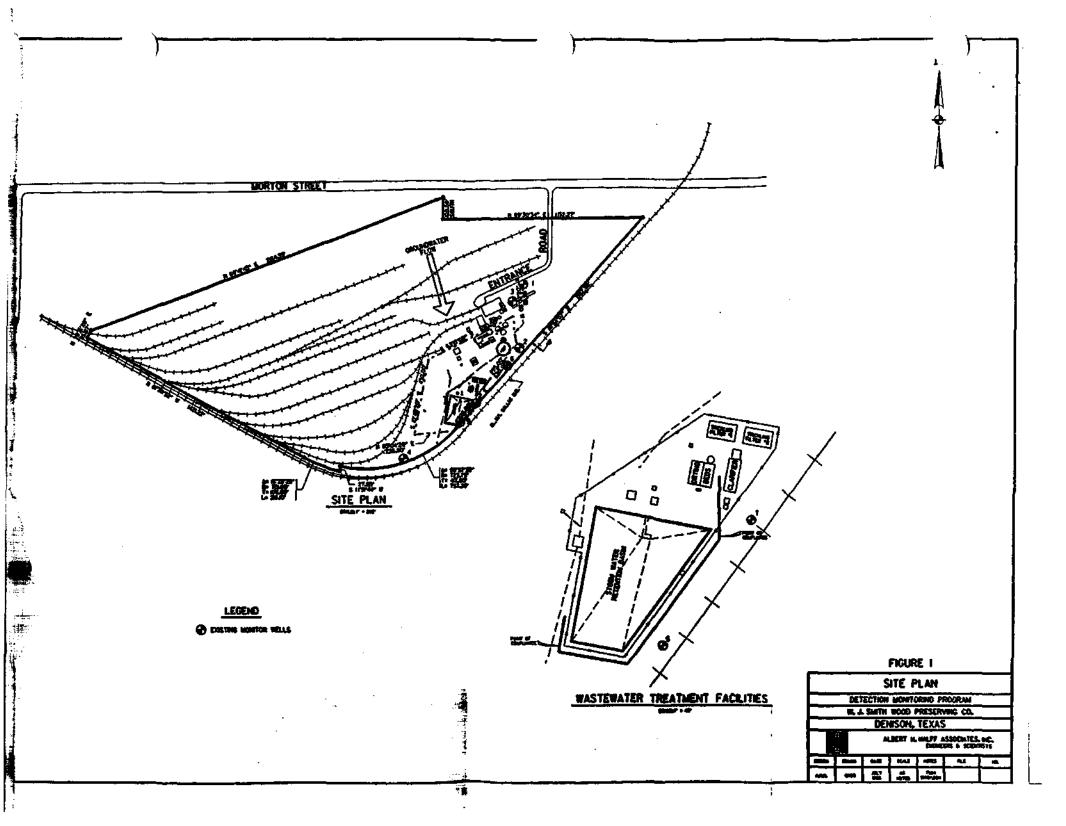


TABLE 1
GROUNDWATER MONITORING WELL DATA

Well	No.	Volume o		iple Purge V Requirement	
	1 .	65.15	Gal.	195.45 Gal.	•
	2	63.85	Gal.	191.55 Gal.	i
	3	69.05	Gal.	207.15 Gal.	
	4	55.37	Gal.	166.11 Gal.	ı
	5	65.15	Gal.	195.45 Gal.	,
	6	68.40	Gal.	205.20 Gal.	,
	7	61.88	Gal.	185.64 Gal.	,

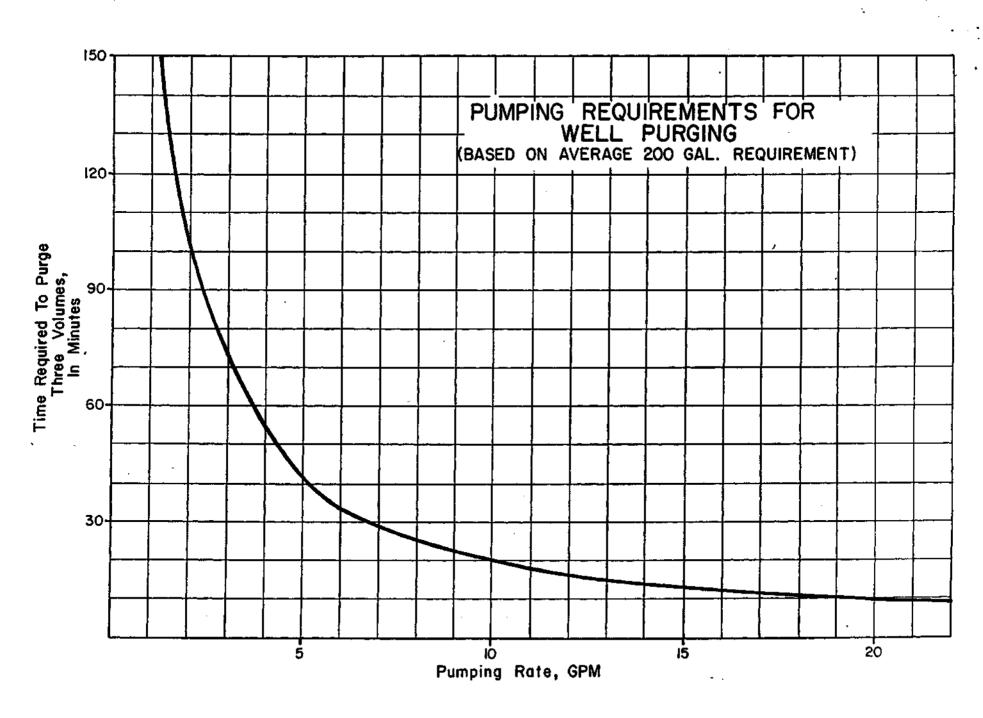


FIGURE 2

CHAIN-OF-CUSTODY FORM:

Figures 3 and 4 are example Chain-of-Custody forms which should be filled out by the sample collector at the time of sampling. These forms, or forms containing similar information, should be filled out for each series of samples, and should travel with the samples to the analytical laboratory. Each person who handles the samples should witness both that he has received and delivered the samples to the next person in the chain. This assures that the responsibility for sample safekeeping is maintained from the point of collection to the point of analysis. In the event that a sample appears to have been damaged or tampered with, the chain-of-custody can be followed to identify any point in which this may have occurred.



NDRC LAB., INC.

6350 LBJ Freeway • Suite 178 • Dallas, Texas 75240 • (214) 233-9801 LAB - 3553 Miller Park Dr. • Garland, Texas 75042

CHAIN OF CUSTODY

	Ollari	0. 0001951	LAB #	
No	Type of Samp	le:		
SAMPLE LOCATION:				
			-	 .
DATE:	TIME:	_ NO. OF CONTA	AINERS:	·····
SAMPLING PERSONN				-
SAMPLE LOGGED IN	AT LAB:		LAB SAMPLE NO	·
DATE: TIM	E: NAME	E:	SIGNATURE:	 .
	· •••			
		 		•
		4		

Attachment B-2

TWC Sample Schedule

Well Number	C.O.C Tag Sample No.	Analysis	Type of Container	Preservative	Time	т	рH	sc	Appearance	Water Depth	Stand Pipe
MW-1	SW 09978	6C/MS	1-liter glass	ice	101.25	29°C	רגד	①	Clear	2	N.A.
	SW 09985	TOC	1-liter cubitaner	Hasoy/ice	10:25						
	6W 03431	Major Ions	1-liter cubitaner	ice							_ ~
MW-2.	SWO9979	GCIMS	1-liter glass	ice	11:10	رو ر (6.8		Clear		
·	SW 09986	TOC	1-liter cubitaner	H2504/ice_							
	6W 03432	Major Ions	1-liver cubiraner	ice							
MW-3	SW 09980	GELMS	1-liver glass	ice	10150	29°C	ר.ד		w		
	SW 09987	TOC	1-liter cubitaner	Hzsoy/ce			<u></u>		- -		
<u> </u>	600 03433	Mojor Ions	1-liter cubirener	ice							
Mw-5	SW 09982	GC/MS	1-liver gless	ice	11:30	29 0	7.2				
	SW 09989	TOC	1-liver cubitaner	H504/1ce		-					
	GW 03435	Major Ions	1-liter cubitaner	ice	- *		. .			<u>.</u> .	

ATTACHMENT B-2

⁽¹⁾ specific conductance not measured
(2) wells are being re-surveyed
(3) not available

Attachment B-3
TWC Field Notes

2		r. I-
	· · · · · · · · · · · · · · · · · · ·	
7/23/86	CME - W. J. Smith wood Presoring Denison, TX SW & 31002	-
	MW-1 sampled first 10:25 a.m. (all other walls evecuated 7/22)	5.
	notes on sampling: - using cense, pump for evacuacing walls - using insets hose (rubber) Theel to dispose of hose	
	- well caps screwed on - no locking caps	
•	- tetlon bailer tept in foil / decontaminated, rope replaced - w.l. measurements of bailer - no field measurements of pld, sp cond. or teng.	
	mw-2 Sampled 11:10	•
	mw-5 sampled 11:30	Fr.
···· · · · · · · · · · · · · · · · · ·	mu-5 is arteson, well casing 2 8' above land surface. well conseruction:	* *************************************
	- all wells conserved of PUC bell + spignor	
	· no locking caps	
	Records:	
	co. has not submitted any salf-reporting forms furt Sout	
_	sampling/analysis plan on-size but not followed with	

MU \$00

τω w.

723-86

MKT SITE - (7) lagoons excavated; unable to obtain clear closure, cut \$1 closed at capped- some slope erosion. Need to control site access. Some ponding on excavated lagoons. Remail is dig towards waterloo late.

Flow decay rather only. No maritur wells on site.

Messays have been held by 5th Still concerning dramage from Stee (city)

TWC - Doubl Smith, David Buchanan, Gerardo Garcia, Caroline abbot W. S. - Par Jolly, Barn adoms,



File IIIA

TWC Reg. No. 31332

TEXAS WATER COMMISSION Comprehensive GW Monitoring Evaluation (CME) Report

INSPECTION COVER SHEET

EPA ID No. TX DO66368879		C.O.Use Only O9.84 LLS Date Entry Date
NAME OF COMPANY W.J. Smith W	pooch Areserving Co.	
SITE ADDRESS P.O. Box 703	Denison, TX	Tel(214) 405-6161
COUNTY Grayson TYPE OF	INDUSTRY wood preserving	
Current GW Monitoring Status: (Specify for each Waste Management Area "WMA")	Detection - W.S. Smith Plant Detection - MKT Site	Siee
Inspection Information: (Twc) Inspector(s) Double Smith, David Company (w. S. Smith) Participants Patrick Tolly Re Type of Inspection (check) EV	urg adoms, Don Tonsky	Date(s) <u>7-23-86</u>
Evaluation: S	ប Signed:	Daw Robert Inspector
A. Monitoring System	Date:	10-1-86
B. Sampling Procedures C. Analysis & Results		Paul A. Lenis Reviewer
D. Records & Response S= Satisfactory U= Unsatis	Date: _	
Overall Evaluation: Compli	antNonCompliant	

Texas Water Commission

INTEROFFICE MEMORANDUM

TO

* The Files

DATE: 9-25-86

THRU

: Reports and Management Group

Hazardous and Solid Waste Division

FROM

: Groundwater Enforcement Unit

Hazardous and Solid Waste Division

SUBJECT:

SW# 31332

Solid Waste Registration No.

Attached is an addendum report to the Comprehensive Monitoring Evaluation (CME) of w.J. Smith wood Res. which includes the results of analyses of monitor well samples taken during the inspection. These results were not available at the time of the CME report submittal. The attachment to this memo should be affixed to the original CME report.

Attachment

cc: TWC District 4 Office

c.	Ana	lysis and Results
	1.	Attachment <u>C-I</u> - Tabulation of analytical methods. Indicate directly on attachment which analyses are performed by: (*) off-site contract lab; (**) on-site operator lab; (***) field measurement.
	2.	Are all samples analyzed with an EPA - approved method?
		If not, indicate on the attachment which methods are not EPA - approved. (See Comment C-2 arrached)
	3.	a. Has the operator been consistent during the monitoring program in its use of methods? Yes No
		b. Has the operator changed laboratories during the program? Yes No \times
		c. Describe any inconsistencies and how the operator has tried to resolve them: Data Submitted on July 11, 1986
	4.	What is the sample analysis turn-around time (i.e., time required to receive results from laboratory)? one week
	5.	a. Describe the laboratory's Quality Assurance/Quality Control (QA/QC) measures: Laboratory QA/QC measures are provided in Attachment C-1. In addition to these measures, field blanks are taken during

b. Attachment <u>C-L</u> - Example of analytical results and/or QA/QC results as reported by the laboratory to the operator.

sampling, and some samples were re-tested to verify analytical results.

6.	Do the results of the QA/QC program verify the validity and reliability of the laboratory and field-generated data? YesNo
	If not, describe possible problems: The QNQC program seems acleguate to verify validity of loboratory results. However, w.T. Smith does not measure field parameters such as pH and specific conductance; therefore, the reliability of field-generated data is hot applicable.
7.	Review the operator's records of analytical results for:
	a. Parameters of initial year of sampling which exceed IPDWS;
	b. Parameters sampled as part of a Ground Water Quality Assessment Plan.
	Indicate on Attachment <u>C-3</u> any parameters exceeding IPDWS, or for which reported detection limits increase through time or appear high relative to other wells.
8.	Overall, does the analysis program enable the reliable detection of, and for assessment purposes, the quantification of a release of hazardous constituents to ground water from the monitored WMA? Yes No _X
	Comments: The current analysis program is adequate. However, the monitor wals are not installed in the appermost against and are therefore incapable of providing reliable quantification of releases.
9.	Results of co-sampling events.
	Attachment C-4 - Results of Operator sample analyses.
	Attachment _ C Results of TWC sample analyses.
	a. Describe any apparent discrepancies between data sets: In general, the data sets correlate well. However, TWC
	data for Sodium and TOC are lower than those reported by W.J. Smith (See attechment C-4).

	parameters which do not occur within previously observe ranges:
	c. Do TWC results confirm the operator's results?
	(See attachment C-S for two analytical Results) Yes X NO - If not, describe possible sources of error:
	1
10	Describe the event water quality based on MMC vegults
10.	Describe the ground water quality, based on TWC results, utilizing Stiff diagrams, tri-linear plots, etc. Is ground
	water contamination confirmed? Yes No x
	Comments: See Attachment C-6 for Stiff diagrams and
	tri-linear plots prepared for the W.S. Smith size.
	Note: because of the long screen intervals and resultant dilution

.

	COMMENCE:
c. 2.	W.J. Smith does not specify test methods in the sampling
	plan for the facility. Upon reguest, W.J. Smith submitted EPA
<u> </u>	test methods and QA/QC procedures from their laboratory.
	However, not all test methods have been specified in this
	document. This document is provided as areachment C-1.
	document. This document is provided as atteachment con-
	
	
	<u>.</u>
····	
	· · · · · · · · · · · · · · · · · · ·
 _	
<u> </u>	
	

attachment C-1

analytical Methods



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

LABORATORY ANALYSIS QUALITY CONTROL REPORT

Manganese Tom Lange Duplicate Spike Recovery

Sodium
Tom Lanage
Duplicate
Spike Recovery

Iron
Tom Lange
Duplicate
100 %

Nitrate Shadi Nikfarjam Duplicate Spike Recovery

Chloride

Phenol Shadi Nikfarjam Duplicate Spike Recovery

pH Shadi Nikfarjam Calibrated 4-7-10

Sulfate Shadi Nikfarjam Duplicate Spike Recovery

Specific Conductance Rick Gilbert Duplicate Spike Recovery

Arsenic Tom Lange Duplicate Spike Recovery EPA Method 242.1 7/30/86 100 % 70 %

EPA Method 273.1 7/30/86 96 % 104 %

EPA Method 413.1 7/30/86

EPA Method 253.3 7/31/86 100 % 109 %

Standard Method 407A

Standard Method 510C 7/29/86 100 % 102 %

EPA Method 150.1 7/24/86

EPA Method 375.3 7/31/86 100 % 96 %

EPA Method 120.1 7/25/86 100 % 100 %

EPA Method 206.2 7/30/86 95 % 110 %



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Barium Tom Lauge Duplicate Spike Recovery

Cadmium
Tom Lange
Duplicate
Spike Recovery

Chromium
Tom Lange
Duplicate
Spike Recovery

Fluoride Shadi Nikfarjam Duplicate Spike Recovery

Lead Tom Lange Duplicate Spike Recovery

Mercury Tom Lange Duplicate Spike Recovery

Selenium Tom Lange Duplicate Spike Recovery

Silver
Tom Lange
Duplicate
Spike Recovery

Endrin Steve Jones Duplicate Spike Recovery

Lindane Steve Jones Duplicate Spike Recovery EPA Method 208.1 7/30/86 100 % 95 %

EPA Method 213.1 7/30/86 100 % 100 %

EPA Method 218.1 7/30/86 100 % 100 %

EPA Method 240.1 7/29/86 90 % 105 %

EPA Method 239.1 7/30/86 100 % 108 %

EPA Method 245.1 7/30/86 100 % 112 %

EPA Method 270.2 7/30/86 100 % 92 %

EPA Method 272.2 7/30/86 100 % 99 %

EPA Method 8080 7/29/86 100 % 92.2%

EPA Method 8080 7/29/86 100 % 92 %



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Methoxychlor Steve Jones Duplicate Spike Recovery

Toxaphene
Steve Jones
Duplicate
Spike Recovery

Chlorinated Herbicides Steve Jones Duplicate Spike Recovery

Silvex Steve Jones Duplicate Spike Recovery

Total Organic Chlorides Cynthia Elmore
Duplicate
Spike Recovery

EPA Method 8080 7/29/86 100 % 90 %

EPA Nethod 8080 7/29/86 100 % 89 %

EPA Method 8150 7/29/86 100 % 87 %

EPA Method 8150 7/29/86 100 % 84 %

EPA Method 415.1 7/29/86 96.7 % 98.4 %

attachment C-2

W.J. Smith Analytical Results



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810A REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #1

WELL # 1 SIH W/ TWC

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Organic Carbon	0.5 ug/l	24.0 mg/l
Pesticides:		
Endrin	0.1 ug/l	N.D.
Lindane	0.05 ug/l	N.D.
Methoxychlor	0.5 ug/l	N.D.
Toxaphene	1.0 ug/l	N.D.
Herbicides:	•	
2,4 D	0.5 ug/l	N.D.
2,4,5-TP Silvex	0.5 'ug/l	N.D.

NDRC Laboratories, Inc.

Dayid R. Godwin/ Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810A

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #1

	ANALYSIS REPORT	
TEST REQUESTED	DETECTION LIMIT	RESULTS
Metals:		
Arsenic Barium Cadmium Chromium Fluoride Lead Mercury Selenium Silver Manganese Sodium	0.01 mg/l 1.0 mg/l 0.01 mg/l 0.05 mg/l 0.1 mg/l 0.1 mg/l 0.001 mg/l 0.01 mg/l 0.01 mg/l 0.01 mg/l	N.D. N.D. N.D. O.2 mg/1 N.D. N.D. N.D. N.D. N.D. 0.04 mg/1
Iron Nitrates Chloride	0.05 mg/l 0.1 mg/l 0.1 mg/l	0.66 14.3 mg/l 25 mg/l

NDRC Laboratories, Inc.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810A

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #1

	ANALYS	ANALYSIS REPORT				
TEST REQUESTED	DETECT	ION LIMIT	RESULTS			
Phenols	0.1	mg/l	N.D.			
Sulfate	10	mg/l	82 mg/l			
рH			7.40			
Gross Alpha	2	pCi/l	N.D.			
Gross Beta	3	pCi/l	N.D.			
Radium	1	pCi/l	N.D.			
Specific Conductance			585 umhos/cm			

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810B

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #2

Wen # 3

ANALYSIS REPORT

TEST	REQUESTED	DETEC	CTION LIMIT	RESULTS
Total	Organic Carbon	0.5	ug/l	22.3 mg/l
Pesti	cides:			
	Endrin	0.1	ug/1	N.D.
	Lindane	0.05	ug/1	N.D.
	Methoxychlor	0.5	ug/l	N.D.
	Toxaphene	1.0	ug/l	N.D.
Herbi	icides:			
	2,4 D	0.5	ug/l	N.D.
	2,4,5-TP Silvex	0.5	_ug/1	N.D.

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810B

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #2

	ANALYSIS REPORT	
TEST REQUESTED	DETECTION LIMIT	RESULTS
Metals:		
Arsenic Barium Cadmium Chromium Fluoride Lead Mercury Selenium Silver Manganese Sodium Iron	0.01 mg/l 1.0 mg/l 0.01 mg/l 0.05 mg/l 0.1 mg/l 0.1 mg/l 0.001 mg/l 0.01 mg/l 0.01 mg/l 0.01 mg/l 0.01 mg/l 0.01 mg/l 0.01 mg/l	N.D. N.D. N.D. O.3 mg/1 N.D. N.D. N.D. N.D. 0.03 mg/1 43.4 mg/1 0.25
Nitrates Chloride	0.1 mg/1 0.1, mg/1	12.2 mg/l 10 mg/l

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810B REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #2

	ANALYSIS R	EPORT	
TEST REQUESTED	DETECTION	LIMIT	RESULTS
Phenols	0.1 mg/	'1	N.D.
Sulfate	10 mg/		N.D.
рН			7.30
Gross Alpha	2 pCi	./1	N.D.
Gross Beta	3 pCi	./1	N.D.
Radium	1 pCi	1/1	N.D.
Specific Conductance			392 umhos/cm

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810C REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #3

Well # 2

ANALYSIS REPORT

TEST	REQUESTED	DETECTION LIMIT	RESULTS
Total	l Organic Carbon	0.5 ug/l	40.1 mg/l
Pesti	icides:		
	Endrin	0.1 ug/l	N.D.
	Lindane	0.05 ug/l	N.D.
	Methoxychlor	0.5 ug/l	N.D.
	Toxaphene	1.0 ug/1	N.D.
Herb:	icides:		
	2,4 D	0.5 ug/l	N.D.
	2,4,5-TP Silvex	0.5 ug/l	N.D.

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810C

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION:

Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith

Series 2 #3

ANALYSIS REPORT

TEST REQUESTED

DETECTION LIMIT

RESULTS

Metals:

Arsenic Barium Cadmium Chromium Fluoride Lead Mercury Selenium Silver	1.0 0.01 0.05 0.1 0.1 0.001	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	N.D. N.D. N.D. O.2 mg/l N.D. N.D. N.D.
Manganese	0.01	mg/l	0.08 mg/l
Sodium		mg/l	27.0 mg/l
Iron	0.05	mg/l	0.23
Nitrates	0.1	mg/l	15.6 mg/l
Chloride		mg/l	8 mg/l

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3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810C

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #3

ANALYSIS REPORT TEST REQUESTED DETECTION LIMIT RESULTS Phenols 0.1 mg/lN.D. Sulfate 10 mg/l38 mg/l 7.80 pН Gross Alpha 2 pCi/l N.D. Gross Beta 3 pCi/1 N.D. Radium pCi/l N.D. Specific Conductance 455 umhos/cm

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810D

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #4 .

Well #6

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS		
Total Organic Carbon	0.5 ug/l	28.2 mg/l		
Pesticides:				
Endrin	0.1 ug/l	N.D.		
Lindane	0.05 ug/l	N.D.		
Methoxychlor	0.5 ug/l	N.D.		
Toxaphene	1.0 ug/l	N.D.		
Herbicides:				
2,4 D	0.5 ug/l	N.D.		
2,4,5-TP Silvex	0.5 ug/l	N.D.		

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810D

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #4

ANALYSIS REPORT

TEST REQUESTED DETECTION LIMIT RESULTS

Metals:

	Arsenic	0.01	mg/l	N.D.	
	Barium	1.0	mg/l	N.D.	
	Cadmium	0.01	mg/l	N.D.	
	Chromium	0.05	mg/l	N.D.	
	Fluoride	0.1	mg/l	0.2	mg/l
	Lead	0.1	mg/1	N.D.	
	Mercury	0.001	mg/1	N.D.	
	Selenium	0.01	mg/l	N.D.	
	Silver	0.01	mg/l	N.D.	
	Manganese	0.01	mg/1	0.12	mg/l
	Sodium	0.01	mg/l	32.4	mg/l
	Iron	0.05	mg/l	0.64	mg/l
Nitrate	es	0.1	mg/l	N.D.	
Chlorie	đe	0.1 *	mg/l	9	mg/l

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810D REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #4

	•		
TEST REQUESTED	DETECTI	ON LIMIT	RESULTS
Phenols	0.1	mg/l	N.D.
Sulfate	10	mg/l	12 mg/1
рН			7.45
Gross Alpha	2	pCi/l	N.D.
Gross Beta	3	pCi/l	N.D.
Radium	ı	pCi/l	N.D.
Specific Conductance			418 umhos/cm

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3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810E REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #5

split w/Twe

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS		
Total Organic Carbon	0.5 ug/l	31.1 mg/ 1		
Pesticides:				
Endrin	0.1 ug/l	N.D.		
Lindane	0.05 ug/l	N.D.		
Methoxychlor	0.5 ug/l	N.D.		
Toxaphene	1.0 ug/l	N.D.		
Herbicides:				
2,4 D	0.5 ug/l	N.D.		
2,4,5-TP Silvex	0.5 ug/l	N.D.		

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David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810E REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #5

	ANALYSIS REPORT	
TEST REQUESTED	DETECTION LIMIT	RESULTS
Metals:		· · · · · · · · · · · · · · · · · · ·
Arsenic	0.01 mg/l	N . D .
Barium	1.0 mg/1	N.D.
Cadmium	0.01 mg/l	N.D.
Chromium	0.05 mg/l	N.D.
Fluoride	0.1 mg/1	0.1 mg/l
Lead	0.1 mg/l	N.D.
Mercury	0.001 mg/l	N.D.
Selenium	0.01 mg/l	N.D.
Silver	0.01 mg/l	N.D.
Manganese	0.01 mg/l	0.07 mg/l
Sodium	0.01 mg/ 1	32.2 mg/l
Iron	0.05 mg/l	0.95 mg/l
Nitrates	0.1 mg/ľ	N.D.
Chloride	0.1, mg/1	4 mg/l

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810E

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #5

	ANALYSIS R	EPORT	
TEST REQUESTED	DETECTION	LIMIT	RESULTS
Phenols	0.1 mg/	1	N.D.
Sulfate	10 mg/	1	15 mg/l
pH			7.30
Gross Alpha	2 pCi	/1	N.D.
Gross Beta	3 pCi	/1	N.D.
Rađium	l pCi	./1	N.D.
Specific Conductance			418 umhos/cm

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810F

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #6

WILL Shit W TWC

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Organic Carbon	0.5 ug/l	16.6 mg/l
Pesticides:		
Endrin	0.1 ug/l	N.D.
Lindane	0.05 ug/l	N.D.
Methoxychlor	0.5 ug/l	N.D.
Toxaphene	1.0 ug/1	N.D.
Herbicides:		
2,4 D	0.5 ug/l	N.D.
2,4,5-TP Silvex	0.5 ug/1	N.D.

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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810F

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #6

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS

Metals:

Arsenic	0.01	mg/l	N.D.
Barium	1.0		N.D.
Cadmium	0.01		N.D.
Chromium	0.05		N.D.
Fluoride	0.1		0.2 mg/l
Lead	0.1		N.D.
Mercury	0.001		N.D.
Selenium	0.01		N.D.
Silver	0.01	mg/l	N.D.
Manganese	0.01	mg/l	0.24 mg/l
Sodium	0.01	mg/l	37.9 mg/l
Iron	0.05	mg/l	0.55
e8	0.1	mg/l	0.6 mg/l
đe	0.1	mg/l	7 mg/l
	Barium Cadmium Chromium Fluoride Lead Mercury Selenium Silver Manganese Sodium Iron	Barium 1.0 Cadmium 0.01 Chromium 0.05 Fluoride 0.1 Lead 0.1 Mercury 0.001 Selenium 0.01 Silver 0.01 Manganese 0.01 Sodium 0.05 es 0.1	Barium 1.0 mg/l Cadmium 0.01 mg/l Chromium 0.05 mg/l Fluoride 0.1 mg/l Lead 0.1 mg/l Mercury 0.001 mg/l Selenium 0.01 mg/l Silver 0.01 mg/l Manganese 0.01 mg/l Sodium 0.05 mg/l Iron 0.05 mg/l

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avid R. Godwin, Ph.D.



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DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810F

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #6

	ANALYS	IS REPORT	
TEST REQUESTED	DETECT	ION LIMIT	RESULTS
Phenols	0.1	mg/l	N.D.
Sulfate	10	mg/l	N.D.
рН			7.70
Gross Alpha	2	pCi/l	N.D.
Gross Beta	3	pCi/l	N.D.
Radium	1	pCi/l	N.D.
Specific Conductance			362 umhos/cm

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David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810G

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #7

Well 4

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Organic Carbon	0.5 ug/l	14.7 mg/l
Pesticides:		
Endrin	0.1 ug/1	N.D.
Lindane	0.05 ug/l	N.D.
Methoxychlor	0.5 ug/l	N.D.
Toxaphene	1.0 ug/l	N.D.
Herbicides:		
2,4 D	0.5 ug/l	N.D.
2,4,5-TP Silvex	0.5 ug/l	N.D.

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David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810G

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well IDENTIFYING MARKS: W. J. Smith Series 2 #7

	ANALYS	IS REPORT	
TEST REQUESTED	DETECT	ION LIMIT	RESULTS
Phonolo	0.1	ma /1	N. D.
Phenols	0.1	mg/l	N.D.
Sulfate	10	mg/l	168 mg/l
рH			7.50
Gross Alpha	2	pCi/l	N.D.
Gross Beta	3	pCi/l	N.D.
Radium	1	pCi/l	N.D.
Specific Conductance			669 umhos/cm

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.



3553 Miller Park Dr. • Garland, Texas 75042 • (214) 276-2986

DATE RECEIVED: 7-24-86

REPORT NUMBER: 86-1810G

REPORT DATE: 7-31-86

SAMPLE SUBMITTED BY: Albert Halff & Associates

ADDRESS: 8616 Northwest Plaza Drive

Dallas, TX 75225

ATTENTION: Mr. Les Potter

SAMPLE DESCRIPTION: Water - Monitoring Well

IDENTIFYING MARKS: W. J. Smith Series 2 #7

ANALYSIS REPORT

TEST REQUESTED

DETECTION LIMIT

RESULTS

Metals:

necars.				
Arsenic	0.01	mg/l	N.D.	
Barium	1.0	mg/l	N.D.	
Cadmium	0.01	mg/l	N.D.	
Chromium	0.05	mg/l	N.D.	
Fluoride	0.1	mg/l	0.5	mg/1
Lead	0.1	mg/l	N.D.	
Mercury	0.001		N.D.	
Selenium	0.01	mg/l	N.D.	
Silver	0.01	mg/l	N.D.	
Manganese	0.01	mg/l	0.68	mg/l
Sodium	0.01	mg/l	37.9	mg/l
Iron	0.05	mg/l		• .
Nitrates	0.1	mg/l	0.7	mg/l
Chloride	0.1	mg/l	31	mg/1

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.

Attachment C-3

Parameters Exceeding IPDWS Standards

Results from the CME conducted on July 22, 1986 yielded samples which exceeded Interim Primary Drinking Water Standards (IPDWS) for Nitrates. Current IPDWS maximum contaminant levels listed in Subpart 8 of 40 CFR \$141.11 for Nitrates are 10mg/l. The following wells exceeded this concentration:

MW-1	TWC W.J. Smith	17.74 mg/l 14.3 mg/l
MM-5	TWC W.J. Smith	3.83 mg/l 15.6 mg/l
E-WM	TWC W.J. Smith	0.25 mg/l 12.2 mg/l

	Well No.	Cal- cium (Ca)	Hagno- siss (Hg)	Sodium (Ma)	Potas- sium (K)	Bicar- bonate (BCO ₃)	Sul- fate (SQ ₆)	Chlo- ride (Cl)	Fluo- ride (F)	Ni- trate (NO ₃)	Dis- solved solids (sum)	Total hardness as CaCO ₃	Spec. Cond. (mihos at 25 ⁰ C)	pli	PH2	Tora ! Organic Carbon (TOC)	
TWC Results	1 2 3 4 5	124 90 74 78	3 4 3 6	7 8 11		234 282 222 290	52 21 8 6	26 6 8 3	0.1 0.0 0.0 0.0 0.0	17.74 0.25 3.83 20.1	419 285 242 264	192 231 182 238	600 443 406 418	8: 0 7: 0: 0 9: 0: 0	6.B 7.7	7.0 4.0 7.0 2.0	
W.3. Smith Result s	1234567			41.0 27.0 43.4 37.9 37.9 32.4 32.2			82.0 38.0 410.0 48.0 410.0 12.0	25.0 8.0 9.0 31.0 9.0 4.0					585 455 392 669 362 418	7.4 7.8 7.5 7.4 7.4 7.3		240 40.1 22.3 14.7 16.6 28.2 31.1	

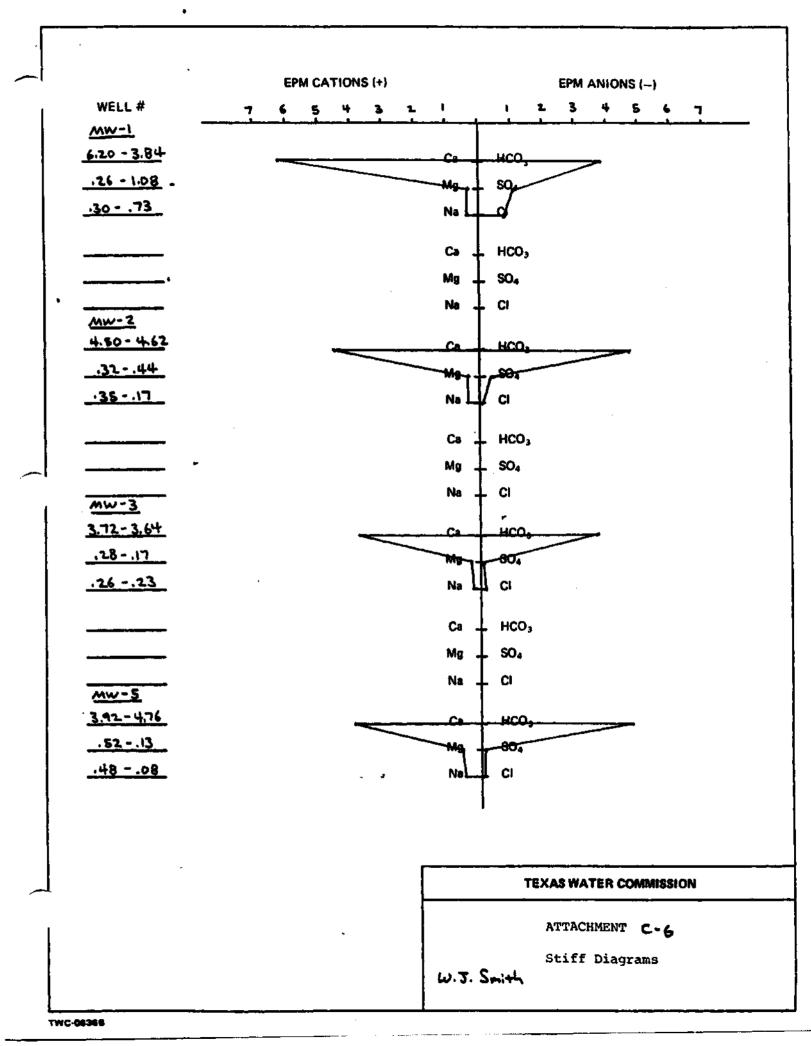
made results in milligrams per liter (mg/e)

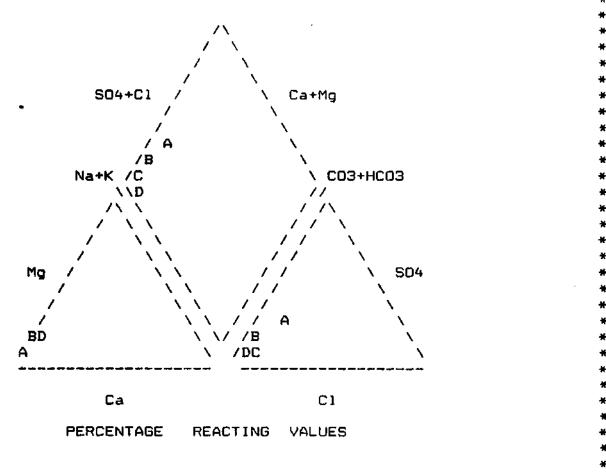
ATTACHMENT C-4

¹ lab results
2 field results

Attachment C-6

Ground Water Quality Plots





-----MILLIGRAMS PER LITER------

STATION AME OR NUMBER	Mg 	Ca	Na+K	HC03 C03+	S04	Cl	SYMBOL
	3.00	124.00	8.00	234.00	52.00	26.00	A
	0.25	6.19	0.33	3.84	1.08	0.73	
	4.00	90.00	9.00	282.00	21.00	6.00	В
	0.33	4.49	0.37	4.62	0.44	0.17	
	3.00	74.00	7.00	222.00	8.00	8.00	С
	0.25	3.67	0.29	3.64	0.17	0.23	
	6.00	78.00	12.00	290.00	6.00	3.00	D
	0.49	3.89	0.50	4.75	0.12	0.08	

Attachment C-5

TWC analytical Results

√ °		District	CO Or. 1442 Work No. 9097 Lab TOH	
iite Name	nith word Presen	oug Co	Point of Collection NW-1	
lite Location Dev Son_	· C.X.			
County Greyson	Basin Fee R	ver	Type to (1997) 🖸 Drum; 🖟 Tank; 💋 Impoundment; 🗎 L	andfill
Method of Collection			D Wes c g: Landform; Other	
			Turne Coffeeted (am., pm) Date Shipped	
			— Add, COC ⇒	
S.W. Registration	Permit Number	Page No. 1 150.	1000 Por 1	
, 	9 10		7 2 3 8 6 11. Conector's Signature)	
	ramater Value 44	_ · ·	tar Volto, is Code 63 Parameter Value	71
TOC	76	<u> </u>		
			γ , γ	
TEXAS DEPARTMENT OF				
vo. sw 09985	WATER RESOURCES T		10t 2 10 2 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
NO. SW 09985 District <u>CO</u> Org. N Material Sampled: © Solid was	WATER RESOURCES T Io. ₩17 Work No Ite (W); □ Liquid waste (L); □	707. Lab T	1:/	
NO. SW 09985 DistrictCO Org. N Material Sampled: □ Solid was □ Stream (S	lo.	7097. Lab 7	Preservation: T. None; T. In., (ZH, 504; E) HNO	-
NO. SW 09985 District <u>CO</u> org. N Material Sampled: © Solid was	lo.	7097. Lab 7 Soit (E);	Freservation: □ None; □ In., □ H, SO, : □ HNO Other Analogy Tass	-
NO. SW 09985 District Org. N Material Sampled: Stream (S Comments (S)	lo. Work No. Ite (W); □ Liquid waste (L); □ Si; □ Other (O)	709元 Lab T Soit (E): 区Well (M):	Analyst sign.: Freservation: [7] None; [2] In., [2] H, SO, ; [2] HNO Other About Tags Rusid on Blow [7] (ACHATE:EP Toxicity Socies;TOWR	
NO. SW 09985 District Org. N Material Sampled: Solid was Stream (S Comments	lo. ↓ ← ↑ □ Work No ste (W); □ Liquid waste (L); □ S); □ Other (O)	7097. Lab 7 Soit (E); Z Well (M);	Analyst sign.: Freservation: [7] None; [2] In., [2] H, SO, ; [2] HNO Other	-
Jo. sw 09985 District Org. N Atterial Sampled: Solid was Stream (S	lo. Work No. Ite (W); □ Liquid waste (L); □ Si; □ Other (O)	709元 Lab T Soit (E): 区Well (M):	Analyst sign.: Freservation: [7] None; [2] In., [2] H, SO, ; [2] HNO Other About Tags Rusid on Blow [7] (ACHATE:EP Toxicity Socies;TOWR	
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JO. SW 09985 District Org. N Material Sampled: Solid was Stream (S) Comments T O 0 4 0 3 F O 0 3 4 0 TOC	lo. Work No. Ite (W); □ Liquid waste (L); □ Si; □ Other (O)	709元 Lab T Soit (E): 区Well (M):	Analyst sign.: Freservation: [7] None; [2] In., [2] H, SO, ; [2] HNO Other	
IO. SW 09985 District CO Org. N Material Sampled: Solid was Stream (S Comments MW-1 30 Code 35 P	Work No	709元 Lab T Soit (E): 区Well (M):	Analyst sign.: Freservation: [7] None; [2] In., [2] H, SO, ; [2] HNO Other	
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NO. SW 09985 District Org. N Material Sampled: Solid was Stream (S Comments	Work No	709元 Lab T Soit (E): 区Well (M):	Analyst sign.: Freservation: [7] None; [2] In., [2] H, SO, ; [2] HNO Other	

NO. SW 0. 36) 44% No. 2071 Lab TOM
Site Name W. J. Suith wood Freserving Co	Point of Collection Mw- L
Site Location Den'son TV	
County Groyson Basin Fed River	
Method of Collection boller	Tytic facility: 🖸 Drum; 🖹 Tank; 🗷 Impoundment; 🗎 Landfill [] Waste pile: 🗇 Landform; 🖨 Other
· ·	./. //
	Terris Collected 11.10 (am. pm) Date Shipped 7/2/8
	Add. COC 🕾
	— ODOR: II Yes, No: Describe
S.W. Registration Permit Number Page No.	Date
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EXAS DEPARTMENT OF WATER RESOURCES TOWN-0849	5. 4
EXAS DEPARTMENT OF WATER RESOURCES TOWN-0849 D. SW 09986 Strict CO Org. No. 442 Work No. 3097 Lab TO4 Iterial Sampled: Solid waste (W); Liquid syste (L); Solid (E); Woll (A); Stream (S); L) Other (O)	Frencial 24 86 Constitution of the First H. SO. F. HNO. Constitution of the First H. SO. F. HNO. August State August Total
EXAS DEPARTMENT OF WATER RESOURCES TOWN-0849 D. SW 09986 Strict CO Org. No. 442 Work No. 2097 Lab TO4 Interial Sampled: D Solid waste (W); D Liquid waste (L); D Soil (E); Wolf A47. Stream (S); L) Other (O) Imments A 277 Continued of	Tendit 24 86 Const Const Manual Table Author Table Tabl
EXAS DEPARTMENT OF WATER RESOURCES TOWN-0849 D. SW 09986 Strict CO Org. No. 442 Work No. 3037 Lab TO4 Iterial Sampled: Solid waste (W); Liquid waste (L); Solid (E); Wolf (A) Stream (S); L) Other (O) Imments ACCO Continued of Code S5 Parameter Value 44 Code 49 Parameter V	Ten III 24 86 Const Con
EXAS DEPARTMENT OF WATER RESOURCES TDWR-0849 D. SW 09986 Strict CO Org. No. 442 Work No. 2027 Lab TD44 Iterial Sampled: Solid waste (W); Liquid waste (L); Solid (E); Wall (A). Stream (S); L) Other (O) (Continued of Continued of Continued of Continued of Code (Continued of Code (Code	Tensible 24 '86 Analyst sign: Constitution of None, Sign: This So, The Hoos of the South of th
EXAS DEPARTMENT OF WATER RESOURCES TDWH-0849 D. SW 09986 Atrict CO Org. No. 442 Work No. 2027 Lab TO4 terial Sampled: Solid waste (W); Liquid waste (L); Soil (E); Wall Atrict Stream (S); Li Other (O) mments Arviv: Continued of Code Gode S5 Parameter Value 44 Code 49 Parameter Value 0 4 0 3	Ten JUL 2 & '86 Const Julyst Sign: Cother Auxilia v Tags Auxilia v
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NO. SW L J87 District CO Site Name W. J. Sm. 4 wood Preserves Co. Site Location Devisor TX	Org. No. 442 Work No. 7097 Lab TOH Point of Collection MW-3 (Deb designation)
County Grogson Basin Red Ruer	Tope factory: [] Drom: [] Tank: [Impoundment; [] Landfill
Method of Collection boiler	Type (Author) Li Drem; Li Tank: ALl Impoundment; Li Landid. Ci Waste (She), Li Landfarm; Di Other
	Time Collected 10150 (60) pm) Date Shipped
	Ado 000 ≅s
	CDCA; II Yes; IP No; Describe
S Will Registration Permit flumber Care No.	1ts 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 9 10 18 19 21 22 21 20 5	(Constant Signature)
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	12 63 Code 63 Farameter Value 71
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TEXAS DEPARTMENT OF WATER RESOURCES TDWR-0849 NO. SW 09987 District CO Org. No. 4-7. Work No. 3037 Lab TOH Material Sampled: D Soho waste (W); D Liquid waste (L); D Soil (E); Wall (M); D Stream (S); D Other (O)	Frankvativa: D None: Z toe; E H. SO.; D HNO.
(cest sn)	act) ACHATE: EP Toxicity Series; TDWR
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thad of Collection					<u> </u>	Type for t U Norteg					ndment;	□ Lar
			·			Time Colle	ected	1:30	ampm) Date :	Shipped	1/2
	· · · · · · · · · · · · · · · · · · ·) #8					
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SW 099	389 — Org. No. Solid waste (W Stream (S); □ — 5	다다. Work l l): □ Liquid waste (l Other (0)	No. 2097 (L); (3 Soil (6);	Z wai (M)	Lab TI) R	Agenta Ag	alyst sign.: Eivation: E Other i:ary Tags EACHATE	None: S	Z loe; A	Series;_	_ TOWR	
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No.GW U3431

TEXAS DEPARTMENT OF WATER R

P.O. Box 13087, Capitol Station Austin, Texas 78711

JRCES

Work No. <u>9077</u> Org. No. <u>447</u> Sample No. <u>AW - I</u>

Owner W.J. Smith	ounty			Well NoM	w-1	
Location						
Date Drilled		Depth		Aquifer		, ,,
Water LevelS	ample After Pumping	Mins, ((Hrs.) Yield		M Temperature	°ı
Jse	•	Remarks				(Over
Data Collamed 7-2	3-86	Time / 0 a	SAS AM B	, DuraR	Suith	
/ate Conected	David '	Smith D-4	T.	wc	ur -R	
end copy of completed ar	alysis to C.	hate na4	Т	DWR Office No	1116 (2	
No. G W 03431,	TEX	AS DEPARTMENT O P.O. Box 13087, (F WATER RES Capitol Station as 78711	SOURCES	Work Org. N Sampl	No. 9097
No. G W 03431 Point of Collection	TEX	AS DEPARTMENT O	F WATER RES Capitol Station as 78711	SOURCES ##2418	Work Org. N Sampl	No. 442
No. GW 03431 Point of Collection Lab Used	TEX	AS DEPARTMENT O P.O. Box 13087, (F WATER RES Capitol Station as 78711	SOURCES ##2418	Work Org. N Sampl	No. <u></u>
No. GW 03431, Point of Collection	TEX	AS DEPARTMENT O P.O. Box 13087, Auctin Tex Lab No Date Completed	F WATER RES Capitol Station as 78711	SOURCES ##2418	Work! Org. N Sample ice Other lons	No. 9097 lo. 442 e No. 200-1
No. GW03431 Point of Collection Lab Used TOH Type of Facility Creose Mo Calcium	TEX	AS DEPARTMENT O P.O. Box 13087, Austin Tex Lab No Date Completed Carbonate Bicarbonate	F WATER RES Capitol Station as 78711 eth Analy	SOURCES ## 24 18 nod of Preservation - yst's Signature EPM 3.8 4	Work Org. N Sample ice Other Ions	No. 9097 lo. 442 e No. 442 Mg/l
No. GW03431 Point of Collection Lab Used	TEX	AS DEPARTMENT O P.O. Box 13087, Auctin Tex Lab No Date Completed Carbonate Bicarbonate Sulfate	F WATER RES Capitol Station as 78711 eth	SOURCES ## 24 18 nod of Preservation - yst's Signature EPM	Work Org. N Sample	No. 9097 lo. 442 e No. 442 Mg/l
No. GW03431 Point of Collection Lab Used TOH Type of Facility Creose Mo Calcium	TEX miler //hw-1 Preservation EPM J 620 3 0.26 3 0.30 Total 6.79	AS DEPARTMENT O P.O. Box 13087, Carbonate Bicarbonate Sulfate Chloride Fluoride	F WATER RES Capitol Station as 78711 eth Analy Mg/l 23.4 5.2 21.6 0.7	SOURCES ## 24 18 nod of Preservation - yst's Signature EPM	Work Org. N Sample ice Other lons	No. 9097 lo. 442 e No. 442 Mg/l
No. G W 0 3 4 3 1. Point of Collection Lab Used	TEX miler //hw-1 preservation EPM 420 3 0.26 3 0.30	AS DEPARTMENT O P.O. Box 13087, 0 Auctin Tex Lab No Date Completed Carbonate Bicarbonate Sulfate Chloride Fluoride	F WATER RES Capitol Station as 78711 eth Analy Mg/l 234 52 216 0./	SOURCES ## 24 *8 nod of Preservation - yst's Signature EPM 0 3.8 \(\frac{1}{2} \) 0.73 0.01 1.27	Work Org. N Sample ice Other lons	No. 9097 lo. 442 e No. 442 Mg/I
No. GW03431 Point of Collection Lab Used	TEX miler //hw-1 Preservation EPM J 620 3 0.26 3 0.30 Total 6.79	AS DEPARTMENT O P.O. Box 13087, 6 Auctin Tex Lab No Date Completed Carbonate Bicarbonate Sulfate Chloride Fluoride Nitrate-N pH Dissolved Solids (sum)	F WATER RES Capitol Station as 78711 eth Analy Mg/l 23.4 5.2 21.6 0.7	SOURCES ## 24 *8 nod of Preservation - yst's Signature EPM 0 3.8 \(\frac{1}{2} \) 0.73 0.01 1.27	Work Org. N Sample ice Other lons	No. 9097 lo. 442 e No. 442 Mg/I
No. G W 0 3 4 3 1. Point of Collection	TEX Tailer / Mw-1 Presentation EPM 3 0.26 3 0.26 7 Total 0.03	AS DEPARTMENT O P.O. Box 13087, 6 Auctin Tex Lab No Date Completed Alig 2.9 66 Carbonate Bicarbonate Bicarbonate Sulfate Chloride Fluoride Nitrate-N pH Dissolved Solids (sum)	Mg/I 234 234 234 234 210 17.74 419 Total	SOURCES ## 24 18 nod of Preservation - yst's Signature EPM	Work Org. N Sample ice Other lons	No. 9097 lo. 442 e No. 442 Mg/I
No. G W 0 3 4 3 1. Point of Collection Lab Used	TEX Tailer / Mw-1 Presentation EPM 3 0.26 3 0.26 7 Total 0.03	AS DEPARTMENT O P.O. Box 13087, 6 Auctin Tex Lab No Date Completed Carbonate Bicarbonate Sulfate Chloride Fluoride Nitrate-N pH Dissolved Solids (sum)	Mg/l 234 234 234 234 234 234 234 23	SOURCES # 24 19 nod of Preservation - yst's Signature EPM O 3.8 4 1.08 0.73 0.01 1.27 0.93	Work Org. N Sample ice Other Ions	Mg/I

 ${\tt No.GW}_{03432}$

TEXAS DEPARTMENT OF WATER RES.

Austin, Texas 78711

P.O. Box 13087, Capitol Station

Work No. 401/ Org. No. 442 Sample No. Mw-2

Owner W.J. Smith wood Preserving Address P.O. Box 703 Denison, TX <u>_ Zio_7\$</u>024) _ Well No. MW-2 County County Location_ Date Drilled. -GPM Temperature 29°CX _Sample After Pumping ______ Mins. (Hrs.) Yield ___ Point of Collection bailer (Over) Lise . Time 11:10 At By David & Smith Date Collected____ TWC TENTR Office No. Go 1116-13 Send copy of completed analysis to... TDWR-0778 (Rev. 10-24-84)

No. GW 0 Point of Collecti				OF WATER RES , Capitol Station yas 78711	SOURCES ME 4 186	Org. No	9097 442 0. My-7
	CROSOTE DESC	vation	Lab No.	100	od of Preservation	M.	
Calcium Calcium Magnesium Sodium Calcium Calci	Mg/l 90 4 8 Total	4.50 32 35 5.79 03	Carbonate Bicarbonate Sulfate Chloride Fluoride Nitrate-N pH Dissolved Solids (sum)	Mg/1 282 21 10 0.1 0.25 Total 285	EPM 0.02 0.17 0.01 0.02 5.25	Other tons	Mg/I
Remarks	analyzed if checked, tota		Total Alkalinity as Cac Total Handard Specific Conductance	D ₃ (Micromhos/CM)	231 4. 443	ıν	

No.**GW**_03433

TEXAS DEPARTMENT OF WATER RE.

P.O. Box 13087, Capitol Station Austin, Texas 78711

JUL 25 27 3

Org. No. 442 Sample No. Aw 3

Owner W. J. Smith wood Preservin	9 Address P.O. Box 703	Denison, TX	Zip 1502D
County Grayson			
Location		···	
Date Drilled	Depth	Aquifer	
Water LevelSample After Pumping	Mins. (Hrs.) Yield	GPM Ten	peratureOF
Point of Collection bailer		Clear	TurbidColor
Use	Remarks		(Over)
Date Collected	Time 15-50 G.m. B	y Doud RSnit	5
Send copy of completed analysis to David	• • • •	_	-
	,		TDWR-0778 (Rev. 10-24-84)
No. GW 03433 Point of Collection balts/Aux-3 Leb Used		JUL 24 186 and of Preservation	Work No. 9097 Org. No. 442 Sample No. 442
Mg/I EPM		st's Signature	<u>رير،</u>
Calcium Magnesium Socium Total Total Total Remarics	Carbonate Bicarbonate Sulfate Chloride Fluoride	EPM 0 3.44 0 0.17 0 0.23 0 0.027 0	hther Ions Mg/I

No.GW,03435

TEXAS DEPARTMENT OF WATER RESOURCES

P.O. Box 13087, Capitol Station Austin, Texas 78711

4097 Work No. 442 Org. No. Sample No. Mw - 5

Owner W. J. Smith wood Preservin	Address P.O. Box 703	Denison, The	Zip_ 75010
County. Devison		_ Well Nohw-S	
Location	<u></u>		· · · · · · · · · · · · · · · · · · ·
	Depth	— · · • · · · · · · · · · · · · · · · ·	
Water LevelSample After Pumping	Mins, (Hrs.) Yield	GPM Tempe	erature 29°C 9K
	Appearance		
	Remarks		(Over)
Date Collected 7/23/86	Time11:30 A4 B	y Dovid R Smith	
Send copy of completed analysis to David S.	<u>ni, 194</u>	WC DWR Office No	3
also: Don Euba	nts D-4		DWR-0778 (Rev. 10-24-84)
TEV	AC DEDARTMENT AT WATER DE	COLIDORE	9097
No. GW 03435 Point of Collection baker/ Mw-S Leb Used		JUL 24 '86 had of Preservation — 'SC	Work No. 9097 Org. No. 442 Sample No. Aw-S
No. GW 03435 balur/ MW-S	P.O. Box 13087, Capitol Station Austin, Texas 78711 Lab No. Pet Date Completed Ana Mg/l Carbonate Sulfate General Completed Ana Provide Ana Chloride Ana Provide Ana Provide Ana Carbonate Ana Mg/l Carbonate Ana Distarbonate Ana	INIT 24 186 hod of PreservationiCL lyst's Signature	Org. No. 4442 Sample No. 44425
No. GW 03435 Point of Collection bour/ Mw-S Lab Used	P.O. Box 13087, Capitol Station Austin, Texas 78711 Lab No. Date Completed Ana Mg/l Carbonate Sulfate Use Chloride Sulfate Chloride Nitrate-N nH	INIT 24 186 hod of PreservationiCL lyst's Signature	Org. No. 442 Sample No. Alw-S ther tons Mg/I

NO. SW 05.18 Site Name	wood Preserving	Oistrict	r 	· · · · · · · · · · · · · · · · · · ·	
County_Grayson Method of Collection_bailer	Basin Red Riv	×-	☐ Waste pile; ☐ Landfarm; [pm) Date Shipped	Fin .
S.W. Registration 1 9 1 3 1 3 3 2 30 Code 35 Parame GC/MS TEXAS DEPARTMENT OF WATE NO. SW 09978 District \$CO Org. No. 44	ER RESOURCES TOWN	1849	ODOR; Yes; No; Descr Yr.	Sull Collector's Signature)	
Material Sampled: ☐ Solid waste (W); ☐ Stream (S); ☐ CommentsMw-1,	☐ Liquid waste (L); ☐ Soil (Analyst sign.: R	ce; 🗌 H ₂ SO ₄ ; 🗎 HNO,	APPROXIMATE CONCENTRALION
30 Code 35 Paramete	r Value 44 Code	(continued on back	LEACHATE: EP Toxi	Parameter Value 71	AS D-10 ANTHRACENE
0 0 4 0 3					3 <i>e</i> 5.3
0 0 3 4 0					
GC/MS Hydrocarbons					
# NETHOSO-DI-IN-PROPYLAMINE	FIETHEL PHIHALATE	Dan-C2-ETHILIETT PHITMANE	<u> </u>		

EPA PRIORITY POLLUTANTS

trans-1,2 DICHLORGETHYLENC

MIE: 8/21/86

ENTATIVE IDENTIFICATION OF THE TEN LARGEST HON-PRIORITE BY COMPARISON WITH EPA/NIH MASS SPECTRAL LIBRARY. QUANTED
TOH SAMPLE NUMBER: THG-1518 IS PROVIDED, AND THE VALUES SHOULD BE REGARDED AS APPROXIMATE

TWC SAMPLE NUMBER: SW 09978

* DETECTION LIMITS ARE APPROXIMATE

SAMPLE TYPE: LIZEL.

* DETECTION LIMITS ARE A	PPROXIM	ATE		SAMPLE TIPE: WELL LE COMOTTION:		TENTATIVE	APPROXIMATE CONCENTRATION
ACID EXTRACTABLES IN IDE	CX DME1 (NECEDORANS/LETER () HTL	<u>Licems/Li</u>	LOCKAN :		COMPOUND 1DENTIFICATION	() MILLIGRAMS/KILOGRAM
nerE	ANT	MANE	<u>Mi</u>	MATE	AAI AAI	BENSOTHIASPIE	30
PHENOL CHLOROPHENOL 2-KITROPHENOL	₹ 16	4-CHLORG-3-CRESOL 2,4,6-TRICHLORGPHENOL 2,4-BINETHYLPHENOL	<u> </u>	4-NITOPHENOL 2,6-DINITRO-2-CRESOL PENTACHLOROPHENOL	<u>~₹</u>	VENT TAXER OTSKAT TUSEY	<u>5</u> .3
2,4-STOROROPIENOL	<u>_*</u>	2,4-DINITHOPHENOL	430				
MASE MEUTRAL EXTRACTABLES	IN ICH	ECK ONE) (MICROCHANS/LITER	() MILL	ICRAMS/LILOCRAM :		WO HYDRACAR BONS FOUND	€.5.0
MAPE	MI	HAE	ART	HANC	MI		
H-HITROSO-H-DINETHYLANINE b15-(2-CHLORGETHYL) ETHER	<u><5.</u> 0	DINETHYL PHTHALATE	<u>→</u>	FLUGRANTIENE PYRCHE	-+-		
1,3-91CHLOROBENZENC 1,4-91CHLOROBENZENE		2,6-DINITROPOLUCIO ACCIMAPHITEME	-+	BENZIDINE BUTYLBENZYL PHTHALATE	#		
1,2-DICHLOROISOPROPYL)ETHI HEXACHLOROISOPROPYL)ETHI	ER	2,4-DINITROTOLUENE FLUORENE ALCSE PROGRESSIN ARCHON CONTR	‡	DENZ(a)ANTHRACENE CHRYSCHE 3,3'-DICHLOROBENZIDINE	+		*****
N-MITROSO-DI-n-PROPYLAMINE NITROSO-DI-n-PROPYLAMINE		4-CHOROPHENTL CHENTL ETHER DIETHTL PHINALATE DIPHENTLANDRE *	7	bis-(2-ETHTLIENYL)PHRIMATE DI-n-OCTYL PHRIMATE	‡		
ISOMORGIE bis-(2-CHLOROETHOXY)METHA	NE	N-MITROSCOJPHENTLANINE 1,2-GJPHENTLHYDRAZINE	3.2 < <u>5.</u> 0	RENZOLIJI FLUORANTHENE BENZOLEJ FLUORANTHENE	‡		
1, 2, 4-TRICHLOROBENZENE MAPHTMALENE HEYACIA COROBITADIENE		4-BROWOFHENYL PHENYL ETHER HEXACHLOROSENZENR PHENANTHRENE	‡	NCHZO(a)PYRENE THOENO(1,2,3-cd)PYRENE BTRENZ(a,h)ANTHRACZNE	‡	COMMENTS AND OTHER REQUESTED ANAL	YSES:
HEXACHLOROCYCLOPENTADES 2-DILOROMAPHTHALENE	4E	ANTIMACENE E1-x-RULYL PHINALATE	\pm	BENZO (ghá) PERYLEME	1		•
PESTICIDES IN CHECK O	EI (W	KIDROCHARS/LITER () RILLIGRA	MS/TILOCEA	<u># :</u>			
HAVE	MIT	MAYE	ART	MANE	AKT		
Jighe-MC	∠ !0	ALDE IN	< <u>10</u>	beta-EXPOSULEM	مبي		
ganca-IAC beta-IAC		4-4'-BDE BTEL DRIM		ENDOSIAFAN SIRFATE ENDRIN	}		
delta-NC		4,4*-000		aipha-ENDOSULFAN	*†		
HEPTACHLOR	-4-	4,4'-801	支	HEPTACHLOR EPOXIBE	-#	•	
ENIMEN ALACHYDE	<u> </u>	197 20.		talls section of distant			
VOLATILE ORGANICS IN 101	CX OME)	(Thichograms/Liter () HILL	. ICRAMS/KIL	OCRAM :			•
MARE _	MA]	HAKE	ANT	MARE	AH3		
CHLOROMETHANE		1,2-DTCHLORGETHANE		1,1,2-TETCHE ORDETHANE			
PROMOMETHANE	-	CARBON TETRACHLOREDE	****	S-CHECKOE DECEMBER ETHER		7	•
VIKIT, CHLORISE		MEDICAL OR SHE THANK		TYTCH ORDETHYLENE			
CHLORGETHINE		BENZENE		BRONDFORM	-	A. D. C. Brand D.	
TRECHLOROFILUOROMETHANE		DI PROPOCIA ORONE IMANE		TOLLEGE		<u>SIGNATURE</u> <u>DATE</u>	
CHLOROFORM		1,1,1=IRECTE ON OF THANK	-	ETHYLBENZENE		Beckard a. albert 8/21/80	
HETHYLENE CHLORIDE		1,2. DICHLOROPROPANE	****	1, T, 2, 2-ICTRACHE DROETHANE	***	DI Dallen 8/21/86	
1,1-DECOLORGETHYLENE		trans-1,3-DICHLOMOPROPYLENE		TETRACIE ORGETHYLESE		Keltan	
1,1-DICHLOROETHANE		cis-1,3-DICHLOROPROPYLENE		CHLOROPCHZCHC			

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.No. sw 05 <i>ა1</i> 9	0.5							<u> </u>
Site Name W. J. Smith		<u>Serving</u>			Point of Colle	ection MW	- 2	
Site Location	У		-					
County_ Groyson		2-0-2						
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Method of Collection <u>ba:ler</u>							Other	17 lauka
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NO. SW 09979	TIEN NESCONCE	ES TOWR-06	149		- B (FBC	JUL 24 '86		
District PCD Org. No.4	42 Work	No. 909	7	Lab TOH	5 5	JUL 24 '86 JUS 22 '86		PRIORITY POLLUTANT PEAKS
Material Sampled: Solid waste (V	V); 🔲 Liquid waste	(L): Soit (E)	: Well (M)	. Cap <u></u>	1 1	,		S APPROXIMATE.
Stream (S); E Comments <u>Mu - 2</u>	3 Other (O)	 _		<u> </u>		it sign.: 15 /		
14					— Preserva Oth	tion: U None;) er	Ø tce; □ H,\$O4; □ HN	APPROXIMATE CUNCTAINERS TO
[4				(continued on ba	— Auxiliar	v Taos	oxicity Series;TDWR	AS D-10 ANTHRACENE () MICROGRAMS/LITER
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pt 42.					128	16	Perameter Value	
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I GC/MS Plu Wasser and								
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GC/HS ANALYSIS REPORT EPA PRIORITY POLLUTANTS

C HSIZH

ME: 8/4/166

TOH SAMPLE NUMBER: 646-1549
TWC SAMPLE NUMBER: 5W 69979

TENTATIVE IDENTIFICATION OF THE TEN LARGEST MON-PRIORITY POLLD. ... BY COMPARISON WITH EPA/NIH MASS SPECTRAL LIBRARY. QUANTITATION AS DIS-M IS PROVIDED, AND THE VALUES SHOULD BE RECARDED AS APPROXIMATE.

ACID EXTRACTABLES IN COMECK ONE! (**) NICROGRANS/LITER (**) NILL CHANS/KILDCRAM: MANE ANT: NAME ANT: NAME PHENDL ANT: NAME PHENDL A-CIRORD-1-CHESOR A-RITROPHENDL 2,4-TRICHLORDRENDR 2,4-TRICHLORDRENDR 2,4-DICHLORDPHENDL 2,4-DICHLORDPHENDL 2,4-DICHLORDPHENDL 2,4-DICHLORDPHENDL 2,4-DICHLORDPHENDL ANT: NAME ANT: NAM	TENTATIVE COMPOUND CO
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HENDL CONTROL	NOTIFIE OF SE
ALOROPHEMOL - HITEOPHEMOL 2,4-BIRTHPHEMOL 2,5-DICHCORORANS/LITER () ATLLICRANS/ELLOCRAN ANT MAYE - HITEOSO-II-BIRTHTLAMINE 3,-BICHCORORANS/LITER () ATLLICRANS/ELLOCRAN 1,2-BICHCORORANS/EME 2,4-BIRTHPHEMOL 2,4-BIRTHP	INTIROP CHESOL VILOCIAM: WITHERE CASE E CASE CAS
PASE WEUTRM EXTRACTARES IN ICHECK ONE'S CONTROCRAMS/LITER CONTROLOGRAM PASE WEUTRM EXTRACTARES IN ICHECK ONE'S CONTROLOGRAMS/LITER CONTROLOGRAMS/	ELLOCAM: MIT CAS 6 E S. 0
PASE NEUTRAL EXTRACTARES IN ICHECK ONE; () MICROGRAMS/LITER () MILLIGRAMS/KILOGRAM ANT NAME ACRAMPHTHILENE 3,3-DICHLOROBENZENE 4,4-DICHLOROBENZENE 4,2-DICHLOROBENZENE ACRAMPHTHALATE BICHTYL PHITHALATE PEXACHLOROBUTADIENE ANTHRACENT BICHTYL PHITHALATE PEXACHLOROBUTADIENE ANTHRACENT BICHTYL PHITHALATE PEXACHLOROBUTADIENE ANTHRACENT BICHTYL PHITHALATE ANTHRACENT BICHTYL PHITHALATE PEXACHLOROBUTADIENE ANTHRACENT BICHTYL PHITHALATE ANTHRACENT BENZZY(qai)PEN CO DETA-ENDOSILFI CO	MITURE C.S. 6 E S. 0
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N-HITTOSO-N-BINETHTLANINE S.O ACEMPHTHTLENE S.O FLUGRANTHCHE DIS-(2-CHLOROGENZINE DIRECTION PATHON ATE PYREME 1,3-BICHLOROGENZINE 2,6-BINITHOTOLUENE BENZIBLIK 1,4-BICHLOROGENZINE ACEMPHTHENE DITTLENETYL PR 1,2-BICHLOROGENZINE ACEMPHTHENE DITTLENETYL PR 1,2-BICHLOROGENZINE ACEMPHTHENE DITTLENETYL PR 1,2-BICHLOROGENZINE ACEMPHTHENE DITTLENETYL PR 1,2-BICHCOROGENZINE ACEMPHTHENE ACEMPHTHENE BENZIBLIK NETROSO-DH-R-PROPYLAMINE BICHTL PHTHALAJE BIS-(2-ETHTLIN NITROBORZENE BISHCHYLANINE BICHTL PHTHALAJE BISHCHYLANINE BICHTL PHTHALAJE BISHCHYLANINE BICHTL PHTHALAJE BICHTLAJINE BICHT	MINER 0.86 E 4.5.0
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PESTICIBES IN IDNECT ONE) () RICROGRAMS/LITER () RILLEGRAMS/KILOCRAM : NAME ANT HAVE AND HAV	I (ghá i PERTLEIC
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Albra-BIC	
GARRAN-BHC 4-4'-BBE ENDOSATAN SIN BETA-BHC BICLOMIN ENBRIN GETA-BHC 4,4'-BBB AIPNA-ENDOSUL MEPTACHLOR 4,4'-BBT HEPTACHLOR EPI ENDRIN ALBERTDE VOLATIZE ORGANICS IN CONCOCOMED () RICROGRAMS/LITER () HILLIGRAMS/KILOGRAM :	AKT
BOTA-BIC BIELMIN ENDRIN delta-BIC 4,4'-BBB alpha-Endosul MEPTACHUM 4,4'-BBT HEPTACHUR EPI ENDRIN ALBERTRE WOLATIRE ORGANIES IN COECK ONE) () RICROGRAMS/LITER () NILLEGRAMS/KILOGRAM :	EIDOSSLFNI <30
DETA-MIC DECEMBER delta-Mic 4,4'-880 alpha-ENDOSUL MEPTACHLOR ENDOSUL A,4'-807 HEPTACHLOR ENDOSUL MEPTACHLOR ENDOSUL WOLATIRE DECAMICS IN COMECULATION () MILEIGRAMS/KILOGRAM:	urim sulate
WESTACHUR (,4'-BB) appra-encosor MESTACHUR (,4'-BB) ALBERTSE WELATILE ORGANICS IN CONECK ONE) (TRICKOGRANS/LITER () HELEIGRAMS/KILOGRAM :	•••
VOLATILE ORGANICS IN CONCO. CHEE C. TRICEOGRAMS/LITER () HILL ISRAMS/KILOGRAM :	
VOLATILE DECAMICS IN TOPECK ONCE () NICEOGRAMS/LITER () NILE IGRAMS/KILOGRAM :	CHICAR EPUXION II.
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NO. SW 0998.	
Site Name +W.J. Smith Wood Preserving Co. Site Location Denison, TX	Point of Collection 7000
County_Grayson Basin_Red River Method of Collection_baller	Type facility: Drum; Tank; Zimpoundment; Landfill Waste pile; Landfarm; Other Time Collected (0:50 (mpm) Date Shipped Add, CCC %
1 9 10 12 19 21 22 23 24	= 2 rec #11 2 4 '86
Orbinents	Cruscivation: None; Ice: H ₂ SO ₄ . HNO ₃ Other Approximate Conclutentials
30 Code 35 Parameter Value 44 Code 49 Parameter	er Value 68 Codo 63 Parameter Value 71 CROGRAMS/X/LOGRAM
0 0 4 0 3	18.
0 0 3 4 0	
GC/MS Hydrocartons	

TOH SAMPLE NUMBER: 546 - 1550

MIATIVE IDENTIFICATION OF THE TEN LANGEST NON-PHICKLIST POLLUT of COMPARISON WITH EPA/MIH MASS SPECTRAL LIBRARY, QUANTITATION B-ANTHE ATEME 13 PROVIDED, AND THE VALUES SHOULD BE RECARDED AS APPROXIMATE.

APPROXIMATE CONCENTRATIONS

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METHYLENE CHEORIDE

1,1-DICILORGETHYLEMC

1.1-DICHLOPOETHAME

TO ANS -1, 2: DICHLORDE THYLENE

MIE: \$/24 /8 6

TO TICHLOROPROPANE

trans-1,3-DICHLOROPROPYLENC

cis-1,3-DICHLOROPROPYLENC

TWC SAMPLE NUMBER: SW 09980

SAPPLE TYPE: WELL * DETECTION LIMITS ARE APPROXIMATE TENTATIVE SAMPLE CONDITION: NOT A ST COMPOUND **IDENTIFICATION** ACID EXTRACTABLES IN ICHECK ONE! (> HICKOCRAMS/LITER () HILLICRAMS/KILDCRAM : MANE 4-CHLORD-3-CHESOL 4-NI TROPHENOL PHENOL **410** <u>مد</u>> CHILDEOPHE WOL 2.4.6-TRICHEDROPHENOL 2,6-DINITRO-2 CRESOL 2-NITROPHENOL 2.4-DINETHTLPHENOL PENTACHLOROPHENOL 2.4-DICHEDROPHENCE 2.4-DINITROPHENOL 220 BASE MEUTRAL EXTRACTABLES IN TOHECK ONE) (L/) MICROGRAMS/LITER () MILLIGRAMS/MILOGRAM; MAKE W-WITROSO-N-DINETHYLANINE ACEMAPHTHTLENE FLUORANTHENE 45.0 **45.0** bis-(2-CHLOROETHYL) ETHER DINETICAL PHYMALATE PYREME 1.3-DICHLOROBENZENE 2.6-DIKITPOTOLUENE MENZIDINE 1,4-DICHLOROBENZEME ACE HAP HTHE HE DUTYLBENZYL PHTHALATE 1.2-DICHLOROBENZENE 2.4-DINITROTOLUENE REVZ(a) ANTIRACENE bis-(2-CHLOROISOPROPYL)ETHER CHRYSTHE FLUORENE HEXACILORGETHANE 4-CHI.OROFHENTL PHENTL ETHER 3,3'-BICHLOROBENZIDINE N-NITROSO-DI-n-PROPYLAMINE DIETHIL PHIHALATE DIS- (2-ETHTLIETTL)PHTIMLATE #ITROMEDIZENE DI-n-OCTYL PHITHALATE DIPHENYLAHINE 1 SEPHOLOGE N-NITROGOS PHENYLANINE BCNZO(i)FLUORANTHENE bis-(2-CHLOROETHOXY)METHANE 1.2-BIPHENYLHYMAZINE BENZO(E)FLUERANTHENE 1. 2. 4-TRICHLOROBENZENE 4-880MOPHERYL PHENYL ETHER BCHZQ(a)PYRCHE MAPHITHM ENE HE XACHLOROBE NZENE INDENO(1,2,3-ca)PYRENE HERACHLOROBUTABLENE PHENANTHREIK DISCUZ(a, N) ANTIRACENE HEXACHLOROCYCLOPENTADIENE ANTHRACEM BENZO (ghi) PERYLENE NO S-CAF CALCAMANAMENE ET-n-RESTE PHIHALATE PESTICINES IN COMER ONE! (INTERCORANSALITER () HILLIGRAMSALIDORAN : MATE alpha-BC AL DE LK beta-ENDOSEFAM <20 <19 SAME-BE 4-4'-500 ENDOSULFAN SILFATE beta-BE DIELDRIA ENDAIN delta-NC aipha-ENDOSULFAN 4.4'-000 HEPTACK OR 4,4'-007 MEPTACHLON EPOXIBE ENDRIN ALBEHYDE VOLATILE ORGANICS IN TOHECK DIET () RICHOGRAMS/LITER () HILLICEARS/KILOGRAM: ANT AH1 CHLORONE THANK 1,2-DICHLORGETHANE 1,1,2-101CHLORDETHANE BEOMORETHANE CARRON TETRACHLOREDE 2-CHLORGETHYLVINYL ETHER VINTL CHLORIDE REPORTED THANK TRICHLORGEDWALENE Suchand a Mast 8/21/86 CHLORGETHANE BE PARKE BECHLOFORN TRECHLOROFLUGRONE THANK BI PROMOCHE OF ONE INAME TOLUENE CHALOROFORM 1,1,1-18 LCHLORGE THANK ETHYLBENZEHE

1.1.2.2-TETRACHLORDETHANE

TETRACHLOROCTHYLENE

CHLORORE NZEWI-

AS D-10 ANTHRACENC W HICROGRAMS/LITER () MILLIGRAMS/KILOGPAN BENZOTHIAZOLE ..18. NA'- DICYCLO HEXYL UREA .3.7 COMMENTS AND OTHER REQUESTED ANALYSES: HYDROCARBONS DETECTED

	Sire Location Denision.	TX		Point of Collection _A	uw-5	
	County Greesen	8asın Rei	d Ruer	Type facility: 🗓 Drum	n; 🗆 Tank; 🔀 impoundment; 🗖 Land	fill
	Method of Collection		-		ffarm; Other	
				Add. COC =s		_
				ODOR; 🗆 Yes: 💢	o; Describe	_
:	S.W. Registration	Permit Num		Bate t Say Yr. is	DRAGO	
		110	_ 	25 24 25 26 27 28 23 A	(Collector's Signature)	_
	3: 33 2			ameter Value Code	G3 Parameter Value 7	7
	30		DH 129 Tale	ameter value	63 Parameter Value 7	
	6c/MS					
		T		7.2		
				17.2		
	TEXAS DEPARTMENT OF WANO. SW 09982 District CO Org. No. Material Sampled: Solid waste (1)	447Work No	TD'VR-0849 5. 9097 Lab 1); Soil (E); Weil (M);	тон <u>з з 24</u>	'86 2'96	N-PRIORITY POLLUTANT PEAKS AY. QUANTITATION AS DID-ANTHPA AS APPROXIMATE
	TEXAS DEPARTMENT OF WANO. SW 09982 District 60 Org. No. 6 Material Sampled: 50lid waste (1) Stream (5);	44.7 Work Na N); ☐ Liquid waste (Li ☐ Other (O)	TD'VR-0849 5. 9097 Lab 1); □ Soil (E); ★Weil (M);	TOH Analyst sign.:	2.88 hda	
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MTE: 8/21/86

TOH SAMPLE NUMBER: EH 6 - 155 TWC SAMPLE NUMBER:

TECTION LIMITS ARE APPROXIMATE

SAMPLE TIPE: WELL

SAPLE COMMITTEE (NTAC)

APPROXIMATE CONCENTRATIONS TENTATIVE AS D-10 ANTHRACEME HICHOGRAMS/LITER COMPOUND () MILLIGRAMS/XILDGRAM IDENTIFICATION 2.9 BENBOTHIA POLE COMMENTS AND OTHER REQUESTED ANALYSES: HYDROCARBONS DETECTED

ENTATIVE IDENTIFICATION OF THE TEN LARGEST NON-PRIDRITY POLICE

IS PROVIDED, AND THE VALUES SHOULD BE RECARDED AS APPROXIMATE.

BY COMPARISON WITH EPA/NIH MASS SPECTRAL LIBRARY. QUANTITATION

ACID EXTRACTABLES IN ICHECK ONE; (VS HICROCHARS/LITER () HILLICRARS/KILOCKAN :

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CHLOROPHENOL	<u>.</u>	2,4,6-T03CHLOROPHEHOL	1	2,6-DIMFTED-2-CRESOL	
2-HITEOPHENOL	<u>T</u>	2,4-BINETHYLPHENOL	<u> </u>	PENTACHLOROPHENOL	<u> </u>
2,4-\$1CHLOROPHEHOL		2,4-DINSTROPHENOL	<u>~</u>		

BASE NEUTRAL EXTRACTABLES IN ICHECK CHEI () HICHOCRANS/LITER () HILLIGRAMS/KILOGRAM :

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1,2-DICHLOROSENZENE	T	2,4-DINITROTOLUENE	\mathbf{I}	BENZ (a) ANTIMACENE	1
bis-(2-CHLOROISOPROPYL)ETHS	ER [TLUORENE	T	CHRISCHE	T
HEXACHLORDETHANE	7~	4-CHLOROPHENYL PHENYL ETHER	77	3,3"-DICHLOROBENZIDINE	Τ.
N-NITROSO-DI-n-PROPYLAMINE	:	BIETHYL PHTHALATE	Γ	bis-12-ETHYLJEXYL)PHTHALATE	$-\mathbf{I}$
MITROSEIZENE		DIPHENYLANINE *	I	DI-A-OCTTL PHINALATE	I
150PHORONE	T_{-}	N-MITROGGE I PHENYLAMENE		BCHZOLj1FLUCRAHTHENE	Ι
bis-(2-CHLOROETHOXY)METHA	NE T	1,2-BIPHENTLHYDEAZINE		BENZO (LIFLUORANTHENE	L
1, 2, 4-TRICHLOROBENZENE	Τ	4-IRONOPHENYL PHENYL ETHER	I	BENZOLA) PYREME	Ε.
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2-CILOROWAPHTHALENE	V	BI-M-BESTE PHINALATE	7	•	

PESTICIPES IN ICHEEK ONE! (I RICKOGRAMS/LITER () MILLIGRAMS/KILOGRAM :

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beta-BIC	1	DIELDRIM		EXDITIN	1
delta-NC		4,4'-900		alpha-ENDOSULFAN	
HEPTACHLOR	-1	4,4'-DBT		HEPTACHLON EPOXIDE	17
ENDRIN ALBEHYDE	₩		•••		

VOLATILE ORGANICS IN CONECX ONE) (TRICKOCRANS/LITER () MILLIGRANS/KILOGRAM :

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Respond a aller 8/21/86

ATTACHMENT NO. 10

CLOSURE PLAN - ACTIVE UNITS

W.J. SMITH WOOD PRESERVING COMPANY DENISON, TEXAS PRELIMINARY FACILITY CLOSURE PLAN

Introduction

The preliminary facility closure plan outlines the scope of work and general operational procedures proposed for the overall facility closure of W. J. Smith Wood Preserving Company, following the termination of production activities at the site.

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W. J. Smith treats wood products by steam pressure-injection of creosote. The preserved wood products are used as railroad ties, bridge timbers, etc. Creosote is recycled in the process, as a material conservation and cost-saving measure. Boiler blowdown, spent condensate, and site stormwater drainage are collected in a treatment system which also recovers creosote for reuse.

The process water treatment system consists of two concrete separation basins (operated in series), a 450,000 gallon stormwater retention basin, a trickling filter biological treatment plant, and sludge drying beds.

Recovered creosote is collected in the bottom of the concrete separators, and pumped to the raw product storage and production tanks. Treated water flows by gravity from the separation basins to the 155° x 135° x 4° stormwater retention basin.

The stormwater retention basin receives flow from the concrete separators, boiler blowdown and condensate, and production area site drainage. This water is pumped over a pair of trickling filters for biological treatment of wood oils, sugars, and any excess phenolics. Following treatment, the water is pumped to the municipal collection system for final treatment at the Duck Creek wastewater treatment plant. The sludge produced by the system is dewatered on a series of drying beds. When dry, the sludge is containerized and disposed off-site.

Closure Procedures

The closure of the facility, upon termination of the production operation, will affect all components of the treatment system which contain bazardous materials.

The only material on the plant site which is listed as a hazardous waste is the bottom sediment from treatment of the wood processing wastewater. These sediments are contained in the stormwater retention basin and the sludge drying beds. Upon closure, these materials will be removed to a Class I waste disposal facility.

The closure of the waste management facilities will be conducted as follows:

(1) All remaining creosote and bottom sediments within the waste management system will be containerized and transported to a permitted Class I Treatment Storage and Disposal (TSD) facility.

- (2) All process piping and equipment which have become contaminated will be dismantled and transported to a permitted TSD facility.
- (3) Contaminated water removed from the treatment structures and process piping will be treated within the existing system and discharged under an NPDES permit or to the municipal POTW.

4

- (4) The stormwater retention basin will be sandblasted to remove residual contamination. Contained bottom sediments and residual cleaning materials will be containerized and transported to a permitted Class I TSD. Alternative cleaning methods may include wet sandblasting (hydroblasting) or steam cleaning, with similar disposal of cleaning materials. The basin will be considered clean at that point, and will be left in place.
- (5) The drying beds will be cleaned in similar fashion, with residual cleaning materials containerized and disposed of at a TSD. The cleaned structures will remain in place.

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Cost Estimate for Facility Closure W. J. Smith Wood Preserving Company Denison, Texas

Stormwater Retention Basin

Water Treated and Discharged to POTW	
50,000 gallons at \$1.00	\$ - 0-
Sandblasting of Basin 15,000 square feet at \$0.45	\$ 6,750
Removal and Class I Disposal of Cleaning Materials Estimated 400 cubic yards at \$90.00	\$36,000
Subtotal Stormwater Retention Basin	\$42,750
Sludge Drying Beds	
Class I Disposal of Sludge and	
Process Piping Estimated 5 cubic yards at \$45.00	\$ 225
Sandblasting of Beds 600 square feet at \$0.45	\$ 270
Removal Class I Disposal of	
Cleaning Materials Estimated 100 cubic yards at \$45.00	\$ 4,500
Subtotal Sludge Drying Beds	\$ 4,995
Total Facility Closure Cost	\$47,745
Engineering/Contingencies (25%)	\$11.936
Total Closure Cost (Estimated)	\$59,681

ATTACHMENT NO. 11
SECTION 3010 NOTIFICATION

CONTINUE ON REVERSE

EPA Form 8700-12 (6-80)

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EPA Form 8700-12 (6-80) REVERSE

ATTACHMENT NO. 12
TEXAS PART A APPLICATION

APPL. NO. TEXAS DEPARTMENT OF WATER RESOURCES بالقالدة بنيانات ----- B. Man HEBLE لى لفظ فيخذ و. PERMIT APPLICATION AUM. RE.I_W BY FOR INDUSTRIAL SOLID WASTE STORAGE/PROCESSING/DISPOSATIFACTETTY COPIES SENT: (CHECK) PART A - FACILITY BACKGROUND INFORMATION GENERAL INFORMATION A. Applicant: W. J. Smith Wood Preserving Company (Individual, Corporation, or Other Legal Entity Name) Address: 1700 West Morton Street (P.O. Box 703) Zip Code: 75020 City: Denison Texas State: Telephone Number: 214-465-6161 **B. Authorized Agents** List those persons or firms authorized to act for the applicant during the processing of the permit application. Also Indicate the capacity in which each person may represent the applicant (engineering, legal, etc.). The person listed first will be the primary recipient of correspondence regarding this application. include the complete mailing addresses and phone numbers. Dr. Albert H. Halff - Engineer 3636 Lemmon Avenue Dallas, Texas 75219 1-214-526-8309 Mr. Bob Wilson - Lawyer McGinnis, Lochridge and Kilgore 900 Congress Avenue Austin, Texas 78701 1-512-476-6982 2. List the individual and his/her mailing address that will be responsible for causing any necessary public notices to be published in the newspaper. Name: Mr. Clarence C. Fehr

State: Texas

Address: P.O. Box 703

Telephone Number: 214-465-616

City: Denison

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Zip Code: 75020

PERMIT CONTROL

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if same	e as applican	nt, state "same as	applicant."	
Name:	V. J. Smith We	food Preserving Com	pany	
Address	: <u>1700 West</u>	Morton Street (P.O). Box 703)	
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- Submit as an attachment a copy of the lease for use of said facility and/or site property, as appropriate; and
- Identify the facility owner. If same as applicant in Part A above, state "same as applicant." If different from the applicant, please note that the owner is required to sign the application on page 5.

	Name: *Same as App	licant"	 	
	Address:	<u> </u>	·	
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	E. Type of Permit Appl	lication:		
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b.

	Water Act	None None	
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j.	PSD program under the Clean Air Act	None	
k.	Nonattainment program under the Clean Air Act	None	
1.	National Emission Standards for Hazardous Pollutants (NESHAPS) precon- struction approval under the Clean Air Act	None	
m.	Ocean dumping permits under the Marine Protection Research and Sanctuaries Act	None	
ก.	Dredge or fill permits under section 404 of the Clean Water Act	None	
٥.	Other relevant environmental permits	None None	

* Use the following acronyms for each agency as shown below:

TDWR = Texas Department of Water Resources

TACB = Texas Air Control Board

TRC = Texas Railroad Commission

TDH = Texas Department of Health

TDA = Texas Department of Agriculture

EPA = U. S. Environmental Protection Agency

CORPS = U. S. Army Corps of Engineers

G. Description of Business

- 1. Give a brief description of the nature of your business.
- W. J. Smith is in the business of preservation of wood. Basically wood is purchased in semi finished form, and is air dried. The wood is trimmed into finished form such as crossties or bridge timbers. A creosote perservative is injected into the wood in closed pressure cylinders.
 - 2. List the principal products and/or services which are provided by your plant. Please itemize by Standard Industrial Classification (SIC) codes.

SIC Code 2491 Wood Preserving

(Name) (Name) (Name) (Title) Certify under penalty of law that I have personally examined and am first with the information submitted in this document and all attachmen and that, based on my inquiry of those individuals immediately respon for obtaining the information, I believe that the information is true accurate, and complete. ignature: (Clarice C. Fills., Date: August 15, 1980) ignature: on this 15th day of August 19 80 y commission expires on the 31st day of March 19 81 (Srayson County, T	Clerence C	. Pehr			Vice Pres	ldent
Certify under penalty of law that I have personally examined and am fiar with the information submitted in this document and all attachmen and that, based on my inquiry of those individuals immediately respon for obtaining the information, I believe that the information is true accurate, and complete. ignature: Classic C. Files, Date: August 15, 1980 ignature: On this 15th day of August 1980 y commission expires on the 31st day of March 1981 Notary Public in and for		(Name)		······································	(7)	† (e)
Certify under penalty of law that I have personally examined and am fiar with the information submitted in this document and all attachmen and that, based on my inquiry of those individuals immediately respon for obtaining the information, I believe that the information is true accurate, and complete. ignature: Clarence C. Felix, Date: August 15, 1980 ignature: On this 15th day of August 1980 y commission expires on the 31st day of March 1981 Notary Public in and for		;				
iar with the information submitted in this document and all attachmen and that, based on my inquiry of those individuals immediately respon for obtaining the information, I believe that the information is true accurate, and complete. ignature:		(Name)	.		(7)	tie)
iar with the information submitted in this document and all attachmen and that, based on my inquiry of those individuals immediately respon for obtaining the information, I believe that the information is true accurate, and complete. ignature:	•					• .
JBSCRIBED AND SWORN to before me by the said Clarence C. Febr on this 15th day of August 19 80 y commission expires on the 31st day of March 19 81 Nofary Public in and for	iar with the and that, ba for obtaining	e information (used on my inqu ng the informat	submitted in uiry of tho:	n this docu se individu	ment and ai ais <i>im</i> media	il attachments Itely responsi
On this 15th day of August , 19 80 commission expires on the 31st day of March , 19 81	ignature:	· lanence	C.Fehr	, ·	Date: <u>Aug</u>	sat 15, 1980
JBSCRIBED AND SWORN to before me by the said Clarence C. Fehr on this 15th day of August , 19 80 commission expires on the 31st day of March , 19 81 Notary Public in and for	ionature:			_ !	Date:	
Notary Public in and for	JBSCRIBED AND SW					
	commission exp	ires on the _	31st	day of	March	, 19 <u>81</u>
	A H					
					0	-
			•		/	. •
	• .*			- 	por Bublic	in and for
					rai y rabilic	, 111 8110 101
Crayson County, T						
		4.5 · · · · · · · · · · · · · · · · · · ·		c	TAVSOR	County, Tex
			<u> </u>			
	8120180				RECEIPT NO.	03603
8 00 80 TEXAS DEPARTMENT OF WATER RESOURCES AUSTIN, TEXAS RECEIPT NO. 803603	1110	- huith to be	ν Ω	4000	500	
8 00 80 AUSTIN, TEXAS RECEIPT NO.		1703 A	Servision	J. X.		
NED EROM W Smith Wood Preserving AMPUNT 5.00	•	V 1.44	Special Fun			
AUSTIN, TEXAS RECEIPT NO. WO Smith Word Preserving AMOUNT 5.00 RESS P.O. BOX 0 703 Demixon, N.X.						_
AUSTIN, TEXAS RECEIPT NO	Fex Fund 961					
AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. SPECIAL FUND AMOUNT 5.00 AUSTIN, TEXAS RECEIPT NO. Special Fund 41 FY CC FY CC Special Fund 123		eted		e 153		500
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AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. AUSTIN, TEXAS RECEIPT NO. Special Fund 41 FY	ARKS: LLLCCATE	· Orvan		ande	,	

TDWR-0756

11. SITE BACKGROUND INFORMATION

A. Location of S	A .	Locati	ion o	f S:	i to
------------------	------------	--------	-------	------	------

١.	Facility Name: W. J. Smith Wood Preserving Company
	Street Address, if available: 1700 West Morton Street
	Denison, Texas 75020 County: Grayson
2.	Are your waste management operations within the extraterritorial jurisdiction of a municipality?
	Yes No
	If you checked "yes," what municipality? Denison

- 3. Give a verbal description of the location of the facility site with respect to known or easily identifiable landmarks.
- W. J. Smith Wood Preserving Company is located 1.4 miles to the west from the intersection of U.S. 75 and Morton Street in Denison, Texas.
 - 4. Detail the access routes from the nearest U.S. or State Highway to the facility site.

Precede on U.S. 75 to Morton Street in Denison, Texas turn west onto Morton Street from and cross railroad tracks. Continue on Morton Street for two blocks and turn left and go approximately 1/10 mile to main office.

- 5. Submit as "Attachment A" a United States Geological Survey (USGS), 7½ minute quadrangle map. Indicate on this map the location of the site and the land use patterns of the areas within ' mile (1.6 km) of the site boundaries (e.g., residential, commercial, recreational, agricultural, undeveloped, etc.). Each area of land use should be labeled on the map. (Note: if such a map is not available, submit a substitute map such as a State Department of Highways and Public Transportation county map with sufficient scale to adequately show the site location and surrounding land use patterns.
- of all adjacent parcels of land, and a list of the names and mailing addresses of all adjacent landowners and other nearby landowners who might consider themselves affected by the activities described by this application. Cross-reference this list to the map through the use of appropriate keying techniques. The map should be a USGS map, a city or county plat, or another map or drawing with a scale adequate enough to show the cross-referenced affected landowners.

b.	Indicate from what source(s) the names and addresses of persons identified as affected were obtained.
	City County School District Water District Abstract Co. Other (specify)
7. En	ter the geographical coordinates of the site:
· L	atitude: 33 deg 45 min 22 sec
L	ongtitude: 96 deg 33 min 44 sec
8. Is	the facility located on Indian lands? Check one:
	Yes <u>X</u> No
B. Legal	Description of Site
land	t as "Attachment C" a legal description of the entire tract of upon which the waste management operations referred to in this t application occur or will occur.
C. Site	Environmental and Technical Information
1. C	limatic and Hydrologic
a	Is any portion of your waste management facility site (including proposed, active, and inactive portions) subject to flooding from adjacent or nearby surface water bod'ss under the following conditions?
	24-hr Rainfall Event Yes No
	5-year <u>X</u> 50-year <u>X</u> 100-year <u>X</u>
b.	Are there any producing groundwater wells on your site property:
ing the second	Yes <u>X</u> No
	if you checked "yes,"
	(I) Indicate the number of such wells:, and

)

i san in siling til sammer Maria san siling til sammer Maria sammer sammer sammer sammer sammer sammer sammer sammer sammer sammer sammer

	(2) Indicate the corresponding warm uses below.
-	(a) Industrial uses:
. *	Cooling water
	Process water
	Fire-control water
	(b) Potable (drinking) water
	(c) Agricultural uses:
	Irrigation water for livestock food crops or grazing land
•	Livestock watering
	Irrigation water for human food crops
с.	Are any adjacent or nearby surface waters utilized by the applicant?
	••••••••••••••••••••••••••••••••••••••
	Yes X No
	If you checked "yes," indicate the corresponding water uses
	below:
	(1) Industrial uses:
	Cooling water
	Process water
~	Fire-control water
	(2) Potable (drinking) water
	(3) Agricultural uses:
·	Irrigation water for livestock food crops or grazing
•	land
	Livestock watering
	Irrigation water for human food crops
2. Si	te Land Use and Subsidence Information
a.	Is any portion of the overall site property utilized for agricultural purposes?
	War as Ma
	Yes <u>x</u> No
	If you checked "yes," indicate the corresponding uses below:
	(i) Grazing
	(2) Livestock food crop
	(3) Human food crop
	If you checked no. (2) or (5), specify the types of crops
	grown.
_	
b.	is any portion of the overall site property subject to land
	subsidence?
	Yes Y No
	Yes _X No
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

If you checked "yes," estimate the magnitude of the greatest subsidence that has occurred (in units of feet).

III. WASTES AND WASTE MANAGEMENT

A. Waste Generation and Management Activities

Is any hazardous industrial solid waste (see Title 40, Code of Federal Regulations, Part 261) presently or proposed to be generated at your facility?

_x Yes ___No

If you checked "no," go to Section III.B.2. below.

If you checked "yes," answer the following question.

1. Are you presently registered with TDWR as a solid waste generator?

X Yes No (but not for creosote sludge)

If you checked "no," contact the Solid Waste Section of TDWR in Austin, Texas to obtain registration information. Also, continue with the application form (go to Number 2 below).

if you checked "yes," go to Section 1 of your Notice of Registration, determine which of your wastes are hazardous, and list these wastes (and mixtures) in Table III-I (see Number 2 below).

 Complete Table !!!-! below, listing all hazardous wastes and all mixtures containing any hazardous waste which are presently or proposed to be generated at your facility. (see 40 CFR 261.3!-33), attaching additional copies as necessary.

In this table, "TDWR Sequence Number" refers to the number in the left-hand column in Section 1 of your Notice of Registration (Note: if you are not registered with TDWR, enter "NA" for TDWR Sequence Number and TDWR Waste Code Number).

For the EPA Hazard Code and EPA Hazardous Waste Numbers, see 40 CFR 261-30-33. For annual quantity, provide the amount in units of pounds (as generated) for each waste and/or waste mixture.

Please group the listings of wastes by SIC code, insofar as your processes are designated by SIC codings. Also, within the general SIC code groups, give a brief description of the specific process or operation from which the waste has been generated.

B. Waste Management Facilities Summary

1. For each waste and waste mixture listed in Table III-1 that is presently or proposed to be managed on-site, provide the summary sheet shown in Table III-2 (Note: you must make copies of Table III-2 and submit the completed set of tables as "Attachment D").

Table 191-1 Concreted Hazardous Wester and Management Activities

Verbel Description	TD1		EPA Hazard	EPA Hazardous	Off-Site		promont Activities plicable (tems) On-Site		Annual Quantity Generated	SIC Code and
of Warts	Num		Code	Waste No.	Olspeed	Storage !	Processing ²	Disposal	(the)	Procest
Creceote Waste Sludge	_	NA	-K001	.0051		*************	X		Not Availab Less than 1,000—.	ole 2491 Wood —Preserving
				·		· ·		<u> </u>		·
								•••••	: 	
		· · · · · · · · · · · · · · · · · · ·								
	<u></u>	<u> </u>		· ·		<u></u>				
		<u> </u>								
· · · · · · · · · · · · · · · · · · ·		···	———							
							******		······································	,
1. de										

^{4, &}quot;Storage" means the interim containment or control of waste after generation and prior to ultimate disposal.

[&]quot;Processing" means the extraction of materials, transfer, volume reduction, conversion to energy, or other separation and preparation of solid waste for reuse or disposal, including the treatment or neutralization of hazardous waste so as to render such waste nonhazardous, safer for transport, amenable for recovery, amenable for storage, or reduced volume. The "transfer" of solid waste for reuse or disposal as used above, does not include the actions of a carrier in conveying or transporting solid waste by truck, ship, pipeline, or other means.

Table 111-2 Hazardous Waste Management Facility Component Summary Sheet

Verbal Description of Waste	Creosote - Waste Sludge
Process (see last column in Table [1]-1)	2491 Wood Preserving
TDWR Sequence Number of Waste (if assigned)	
Indicate the facility components used for sto specified waste by entering the number of suc is managed.	
Lagoon/Pond (unlined)	Landfarm
Lagoon/Pond (lined)	Landspreading Area
Basin (earthen, above-grade lined)	Spray Irrigation Area
<u>1</u> Basin (earthen, above-grade unlined)	Flood Irrigation Area
Basin (earthen, below-grade lined)	Septic Tank/Drain Field
Basin (earthen, below-grade unlined)	Injection Well
2 Basin (concrete, above-grade lined)	Tank (surface storage)
Basin (concrete, above-grade unlined)	Tank (sub-surface storage)
Basin (concrete, below-grade lined)	Tank (surface processing)
Basin (concrete, below-grade unlined)	Tank (sub-surface processing)
Basin (other)	Tank (other)
Pit (lined)	Drum Storage Area (open)
Pit (unlined)	Drum Storage Area (enclosed)
Incinerator	Drum Storage Area (other)
Open Controlled Incineration Area	Bulk Storage Area (open)
Boiler (energy-producing)	Bulk Storage Area (enclosed)
Lendfill (sanitery)	Bulk Storage Area (other)
Landfill (surface, open)	Other (specify <u>Bacteriological</u>
, Landfill (other)	Waste Water Treatment Plant)

2. Has the applicant at any time conducted the on-site storage, processing, or disposal of industrial solid waste now identified or listed as hezardous waste?

Y	Yes	No

If you checked "yes," complete Table 111-3 Indicating the hazardous industrial solid waste management facility components which were once utilized at your plant site but are no longer in service (i.e., inactive facility components).

If you checked "no," and if no hazardous industrial solid waste is presently or proposed to be generated or managed at your facility, then you need not file this permit application. Otherwise, proceed with application form.

3. For each facility component indicated in Table III-2 (Attachment D) and Table III-3, complete the following Table III-4 attaching additional copies as necessary. Enter the name of each facility component as specified in the earlier tables.

Give the design capacity of each facility component in any of the units shown. In the case of inactive facilities for which design details are unavailable, an estimate of the design capacity is sufficient.

Please note that each facility component should be described in your own words on the line provided for "verbal description."

4. Provide an estimate of the total weight (ibs) of hazardous industrial solid waste material that has been disposed of and/or stored within your site boundaries and not removed to another site.

Not Available. Waste gradually digests in basin. No haul away has been required for the last nine years.

- C. Location of Waste Management Facilities and Components
 - 1. Submit as "Attachment E" a drawn-to-scale topographic map (or other map if a topographic map is unavailable) extending one mile (and only one mile) beyond the property boundaries of the overall plant site, depicting the following:
 - a. The approximate boundaries of the site (described in Section II B) and within these boundaries, the location and boundaries of the areas occupied by each active, inactive, and proposed facility component (see Tables III-2 and III-3 for facility components). Each depicted area should be labeled to identify the facility component(s), component status (i.e., active, inactive, or proposed), and area size in acres.

fable III-3 inactive Hazardous industrial Soild Waste Management Facility Components

Indicate the inactive facility components which were used for storage/processing/disposal of hazardous wastes or mixtures containing any hazardous waste by entering the number of such facility components in the space provided.

Lagoon/Pond (1 ined)	Landspreading Area
Basin (earthen, above-grade lined)	Spray Arrigation Area
5 Basin (earthen, above-grade unlined)	Flood Irrigation Area
Basin (earthen, below-grade lined)	Septic Tank/Drain Field
Basin (earthen, below-grade unlined)	Injection Well
Basin (concrete, above-grade lined)	Tank (surface storage)
Basin (concrete, above-grade unlined)	Tank (sub-surface storage)
Basin (concrete, below-grade lined)	Tank (surface processing)
Basin (concrete, below-grade unlined) Basin (other)	Tank (sub-surface processing) Tank (other)
Pit [lined]	Drum Storage Area (open)
Pit (unlined)	Drum Storage Area (enclosed)
Incinerator	Drum Storage Area (other)
Open Controlled Incineration Area	Bulk Storage Area (open)
Boiler (energy-producing)	Bulk Storage Area (enclosed)
Landfill (sanitary)	Bulk Storage Area (other)
Landfill (surface, open)	Other ispecify
Landfill lother	

Facility Comp			Status			Design Capac	lty	_ Number of	Date
Name	TDWR Seq. No.	Inactive	Act Ive	Proposed	(cu yds)	(gal)	(lbs)	Years Utilized	in Service
			v	. :					1071
Retention Basin (Concret	re-ined) 1		, 			50 gpm	· .		1971
Verbal Description:	The 450,000 gallo	on_concrete	lined b	sin_serves	as a sedin	nentation and	equalization	besin with a	24-hour
detention period. The ba		d for spilla	<u>re control</u>	and will tre	eat the first	one-inch of st	orm water ru	noff.	-
Bacteriological Waste Wa Treatment Plant	iter		X	· ·		_50_gpm	·	. 8	1972
Verbai Description: _	frickling filter ha	s an area eo	nilvalent	to a 16.3 fo	ot circular	tower with a h	eight of 22 fe	t. The influer	t rate is
0.0403 mdg and recircula	_								
Rock Hole	11		x			400		71	1909
Verbal Description: (Concrete lined tar	k collects d	fischarge :	wasta water	from proce	see blow down t	ank.		\ <u></u>
	MARLETE HIRO TO	IN COHEC IS	nocinal Re-	MBSIC WOLL	AIVIII Pros	SS ON W GOWN	GRUNS	 	
Man Mala	•					500		**	1909
Clay Hole									
Verbal Description:]	Earthen berm tank	separates	recoverab	le creosote	<u>from waste</u>	water.			
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		<u></u>
Parthen Basics		X				Unknown	· · · · · · · · · · · · · · · · · · ·	62	1393 ×
Verbal Description:	Storage of sugars,	starches, w	nod resin	s, and creos	ote waste w	ater.	·		
Verbal Description:			· ·						
No.				;					
					· · · · · · · · · · · · · · · · · · ·		<u></u>	<u> </u>	

- b. The overall facility and all surface intake and discharge structures;
- c. All injection wells where liquids are injected underground;
- d. All known monitor wells and boreholes within the property boundaries of the overall plant site; and
- e. All wells, springs, other surface water bodies, and drinking water wells within the map area and the purpose for which each water well is used (e.g., domestic, livestock, agricultural, industrial, etc.).
- 2. Submit as "Attachment F" photographs which clearly defineate all hazardous waste facility structures and storage, processing, and disposal areas, as well as sites of future storage, processing, and disposal areas.

D. Flow Diagram/Description

Show as "Attachment G" process flow diagrams or step-by-step word descriptions of the process flow, depicting the handling, collection, storage, processing, and/or disposal of each of the hazardous wastes previously listed in this application.

The flow diagrams or descriptions should include the following information:

- 1. Originating point of mach waste and waste classification code;
- 2. Means of conveyance utilized in every step of the process flow;
- Name and function of each facility component through which the waste passes;
- 4. The ultimate disposition of all wastes (if off-site, specify "off-site") and waste residues.

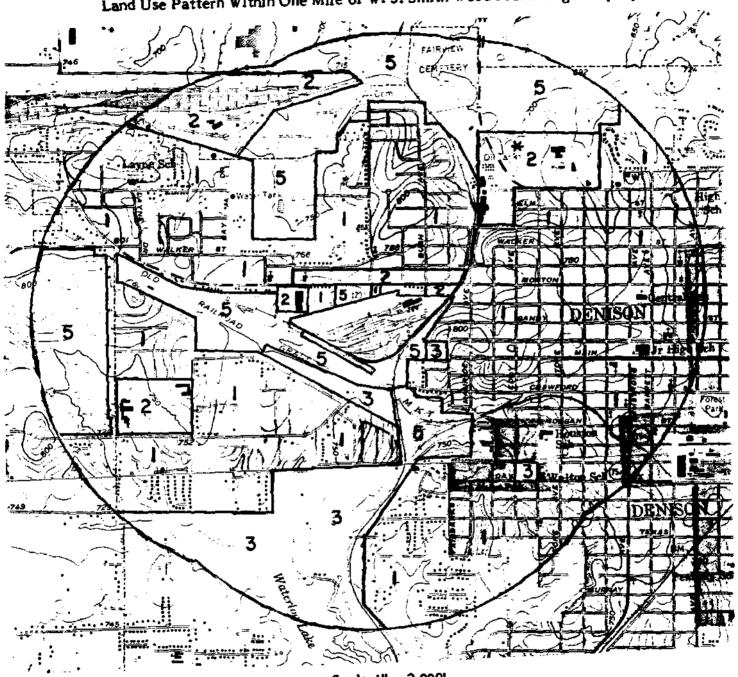
IV. INDEX OF ATTACHMENTS

List and index below all attachments to this application and indicate if included or not included:

item	Mandatory Attachments	Attachment	Included	Not Included
11.A.5.	USGS map	Ā	<u>x</u>	_
11.A.6.a.	Affected landowners	<u>B</u>	<u>_x</u>	_
11.B.	Site legal description	Ē	_X_	
.B. .	Hazardous waste facility component summary sheets	<u>D</u>	<u>.x</u>	
111.0.1.	Facility boundaries and adjacent waters map	Ē	_X_	-
111.C.2.	Photographs	£	_ <u>X</u> _	· <u>—</u>
111.D.	Process flow diagram/description	<u>e</u>	<u>_x</u>	
	Other Attachments as Required			1
1.D.2.a.	Lease			<u>x</u>
111.A.2.	Additional generated waste fist (Table III-1)	· . —	· 	<u>_x</u>
111.8.3.	Additional hazardous waste facility components list (Table fil-4)	-	_	<u>-x</u>

ATTACHMENT A

Land Use Pattern Within One Mile of W. J. Smith Wood Preserving Company



Scale I" = 2,000'

Legend		Source:
Residential Commerical Recreational Agricultural Undeveloped	- 1 - 2 - 3 - 4 - 5	Maps are U.S.G.C. 7.5 Minute Quad. Denison Dam, Texas - Oklahoma (Photorevised 1973) Sherman, Texas (photorevised 1974)

ATTACHMENT B

Names and Addresses of Property Owners Adjacent to W. J. SMITH WOOD PRESERVING COMPANY

Cross Reference to Attachment Map B

Area 1 - South of Morton Street (East of Bush Avenue) Block ten (10).

```
Lot 77
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 76
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 75
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 74
          The Cole Company 1611 West Morton Street Denison, Texas 75020
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 73
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 72
Lot 72
          The Cole Company 1611 West Morton Street Denison, Texas 75020
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 71
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 70
          The Cole Company 1611 West Morton Street Denison, Texas 75020
Lot 69
Lot 68
          Cole Lumber Company 1530 West Morton Street Denison, Texas
          75020
```

Area 2 - South of Morton Street (West of Bush Avenue) Block Eleven (11) West End Addition.

Hodge Herman 1800 West Morton, Denison, Texas 75020
Hodge Herman 1800 West Morton, Denison, Texas 75020
Hodge Herman 1800 West Morton, Denison, Texas 75020
Ray Jimmy 6901 Lakeview Denison, Texas 75020
Deleted
Ellison Ted A 1701 West Morton, Denison, Texas 75020
Ellison Ted A 1701 West Morton, Denison, Texas 75020
Ellison Ted A 1701 West Morton, Denison, Texas
Ellison Ted A 1701 West Morton, Denison, Texas
James George E 304 South Jennie Lane Denison, Texas 75020
RG Hall 1700 West Morton, Denison, Texas
RG Hall 1700 West Morton, Denison, Texas 75020

Area 3 - South of Morton Street (Addition 3203) Block three (3)

Parcel

Westbrook W.F. 193 Campbell Drive. Lewisville, Texas 75067
Warren John 1822 West Morton Street Denison Texas 75020
Sonnerburge David Michel 1824 West Morton Street Denison, Texas 75020
Svane RL 2021 West Walker Denison, Texas 75020
Steven Walter D. Jr. 1828 West Morton Street Denison, Texas 75020
Ellison Ted A 1701 West Morton Street Denison, Texas 75020

ATTACHMENT B CONTINUED

Area 4 - South of Morton Street Hardin Jones Abstract - A630

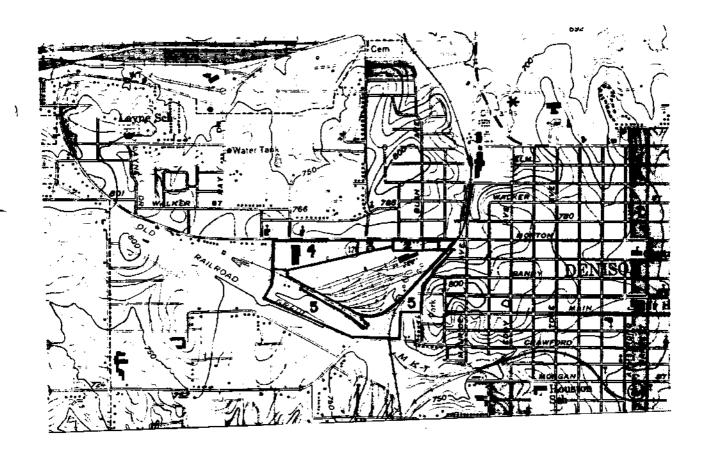
Parcel	
121	Streetman L.J. 324 N. Central Expressway Suite 112, Richardson,
	Texas 75080
121.01	Garner Richard G 609 Queens Denison, Texas 75020
127	Hollowell Earl E. 2000 West Morton, Denison, Texas 75020
128	Murray Properties, Att: Vernon Smith, P.O. Box 47791, Dallas,
	Texas 75247 (Part of West Park Shopping Center)

Area 5 - Land bordering the west, south and east sides of W. J. Smith Wood Preserving Company Hardin Jones Abstract - A630

Parcel	
218.01	MK&T R.R. Company 701 Commerce Street, Dallas, Texas 75202

ATTACHMENT B

Land Adjacent to W. J. Smith Wood Preserving Company



ATTACHMENT C

LEGAL DESCRIPTION OF THE W. J. SMITH WOOD PRESERVING COMPANY PLANT PROPERTY

Two tracts of land out of the Hardin Jones Headright, in the City of Denison, in Grayson County, Texas, more particularly described as follows:

TRACT NO. I

BEGINNING at the Northwest corner of Lot Twelve (12) in Block Eleven (11) of West End Addition to the City of Denison, Texas;

THENCE South, with West line of Lot Twelve (12), 46 feet to a steel rail for the point of beginning;

THENCE continuing South with said West line and West line produced 120.56 feet to a steel rail;

THENCE North 89°30'34" East 1152.27 feet to a point, said point being 40 feet at right angles Northwesterly from the center line of main track of Missouri-Kansas-Texas Railroad Company of Texas, known as the Warner Cut-Off at Valuation Chaining Station 223 plus 76.1, said point being also 169.5 feet South of the South line of Morton Street;

THENCE South 41°54'07" West, 1582.95 feet, to a curve radius of 723.75 feet - L 757.38 feet, South 11°51'44" West 27.85 feet, D - 7°37'24" - R - 751.60 feet;

THENCE North 61°39'52' - West 1421.22 feet;

THENCE North 28⁰15'28" East 45.87 feet;

THENCE North 69041'45" East 2164.39 feet to point of beginning and containing 58.67 acres of land more or less.

TRACT NO. II

STARTING at a point from the extreme Northwest corner of Tract No. 1;

THENCE South 61039'52" East 249.22 feet;

THENCE South 28°20'08" West 22.85 feet to point of beginning of Tract No. 2;

THENCE South 61°39'52" East 1172.00 feet;

THENCE North 30°08'08" East 15 feet, to a curve L - 250.00 feet, D - 10°12', R 561.73 feet;

THENCE South 55°38'08" West 70.0 feet, to a curve L - 218.85 feet, D - 11°59'10" R - 491.73 feet;

THENCE North 61^o39'52" West 1172.00 feet;

THENCE North 28⁰20'08" East 55.00 feet to beginning point and containing 2.02 acres of land more or less.

ATTACHMENT D

Hazardous Waste Facility Component Summary Sheets

TABLE III-2

Table III-2 Hazardous Waste Management Facility Component Summary Sheet

verbal pescription of waste	Cleosote - waste studge
Process (see last column in Table III-1)	2491 Wood Preserving
TDWR Sequence Number of Waste (if assigned)	
Indicate the facility components used for sto specified waste by entering the number of suc is managed.	* '
Lagoon/Pond (unlined)	Landfarm
Lagoon/Pond (lined)	Landspreading Area
Basin (earthen, above-grade lined)	Spray Irrigation Area
1 Basin (earthen, above-grade unlined)	Flood Irrigation Area
Basin (earthen, below-grade lined)	Septic Tank/Drain Field
Basin (earthen, below-grade unlined)	Injection Well
2 Basin (concrete, above-grade lined)	Tank (surface storage)
Basin (concrete, above-grade unlined)	Tank (sub-surface storage)
Basin (concrete, below-grade lined)	Tank (surface processing)
Basin (concrete, below-grade unlined)	Tank (sub-surface processing)
Basin (other)	Tank (other)
Pit (lined)	Drum Storage Area (open)
Pit (unlined)	Drum Storage Area (enclosed)
Incinerator	Drum Storage Area (other)
Open Controlled Incineration Area	Bulk Storage Area (open)
Boiler (energy-producing)	Bulk Storage Area (enclosed)
Landfill (sanitary)	Bulk Storage Area (other)
Landfill (surface, open)	Other (specify <u>Bacteriological</u>
Landfill (other)	Waste Water Treatment Plant)

ATTACHMENT E

Location of Waste Management Facilities and Components

Three Maps

III.C.1 U.S.G.S. 1'=2,000" of Site and Land Extending One Only.

III.C.1a. Map of Facility Site, and map of wastewaste disposal system.

III.C.1b. None

III.C.1c. None

III.C.1d. None

III.C.1e. Waterloo Lake - Park

ATTACHMENT NO. 13
CREOSOTE COMPOUNDS

CREOSOTE COMPOUNDS

•	Formula	Point Point
Coumarone	C8H6O	174
p-Cymene	C10H14	177
Indene	C9H8	182
Phenol	C ₆ H ₆ O	181
O-Cresol	C7H8O	190
Benzonitrile	C7H5N	191
m-Cresol	C7H8O	202
Naphthalene	C ₁₀ H ₈	218
Thionaphthene	C ₈ H ₆ S	222
Quinoline	C9H7N	243
2-Methylnaphthalene	C11H10	241
Isoquinoline	C9H7N	238
1-Methylnaphthalene	C11H10	245
4-Indanol	C9H10O	245
2-Methylquinoline	C ₁₀ H ₉ N	247
Indole	C ₈ H ₇ N	252
Diphenyl	C ₁₂ H ₁₀	255
1, 6-Dimethylnaphthalene	C ₁₂ H ₁₂	262
2, 3-Dimethylnaphthalene	· C ₁₂ H ₁₂	266
Acenaphthene	C ₁₂ H ₁₀	281
Dibenzofuran	C ₁₂ H ₁₀ O	· 287
Fluorene	∑C13H10	299

	Formula	Boiling Point
1-Naphthonitrile	C11H7N	, 297
3-Methyldiphenylene	C13H10O	298
2-Naphthonitrile	C11H7N	304
9, 10-Dihydroanthracene	C14H10	305
2-Methylfluorene	C ₁₄ H ₁₂	318
Diphenylene Sulfide	C ₁₂ H ₈ S	332
Phenanthrene	C14H10	340
Anthracene	C14H10	342
Acridene	C ₁₃ H ₉ N	346
3-Methylphenanthrene	C ₁₃ H ₁₂	350
Carbazole	C ₁₂ H ₉ N	352
4, 5-Methylenephenanthrene	C15H10	353
2-Methylanthracene	C15H12	360
9-Methylanthracene	C15H12	361
2-Methylcarbazole	C13H11N	363
Fluoranthene	C ₁₆ H ₁₀	382
1, 2-Benzodiphenylene	C16H10O	395
Pyrene	C ₁₆ H ₁₀	393
Benzofluorene	C17H12	413
Chrysene	C18H12	448

**

; () ATTACHMENT NO. 14
PENALTY CALCULATIONS

PENALTY SUMMATION

TOTAL PENALTY=SUM OF ALL THE INDIVIDUAL VIOLATION PENALTIES

\$ 25,000	PERMITS		
\$ 17,000	FINANCIAL	note	1
\$ 50,000	GROUNDWATER	note	2
9,500	CLOSURE PLAN		
101,500	TOTAL	note	3

note 1--The calculated economic benefit of noncompliance is \$15,715.

note 2-- The calculated economic benefit of noncompliance is \$25,551.

note 3--In no case should EPA settle for less than \$41,266 which is the total economic benefit derived by W. J. Smith for noncompliance.

The economic benefit to W. J. Smith for failing to install a groundwater monitoring system until October 1985 was calculated based on the following assumption.

> W. J. Smith drilled seven wells; the economic benefit calculations were based on the "average" well described below:

> > 100 feet deep

25 feet of screen

75 feet of casing

70 feet of sand pack

30 feet of grouting 4 inch inside diameter PVC casing

- A hollow stem auger

PENALTY COMPUTATION WORKSHEET

Company Name: W.J. Smith Wood TRESERVING Co.					
Regulation Violated 40 CFR 265 Subpart H					
Asessments for each violation should be determined on separate worksheets and totalled.					
(If more space is needed, attach separate sheet.)					
Part I - Seriousness of Violation Penalty					
1. Potential for Harm: MAJOR					
2. Extent of Deviation: MAJOR					
3. Matrix Cell Range: 20,000 - 25000					
Penalty Amount Chosen: 20,000					
Justification for Penalty Low end of SCA/e Amount Chosen: INSURANCE difficult to Aquie					
4. Per-Day Assessment: ZO, OOO					
Part II - Penalty Adjustments					
Percentage Change* Dollar Amount					
1. Good faith efforts to comply/lack of good faith: 15% - 3000					
2. Degree of willfulness and/or negligence: NA NA					
3. History of NA NA					
4. Other unique factors: NA NA					
5. Justification for sudden/nonsuden liability Insurance Adjustments: Is difficult to aquire the company was tried					
* Percentage adjustments are applied to the dollar amount calculated on line 4, Part I.					

PENALTY COMPUTATION WORKSHEET (cont.)

	
6. Adjusted Per-day Penalty (Line 4, Part I + Lines 1-4, Part II):	17,000
7. Number of Days of Violation:	
8. Multi-day Penalty (Number of days x Line 6, Part II):	12,000
9. Economic Benefit of Cost of INSURANCE Noncompliance: permium *(1-T)	15,715
Justification:	
10. Total (Lines 8 + 9, Part II):	17,000
11. Ability to Pay Adjustment:	
Justification for Adjustment:	NA
12. Total Penalty Amount (must not exceed \$25,000 per day of violation):	17,000
<u> </u>	

. NANCIAL VIOLATION PONALTY CALCULATION WIT, Smith received two RATE quotAtions fore sudden I NON sudden linbility insurance. The quotAtions FOR: \$3,000,000 per occurrence and \$6,000,000 aggregate. In each quotation, RATES were quoted for two different deductibles. PREMIUM QUOTATION Deductible per occurrence # 29,250 # 21,250 # 35,060 \$ 50000 \$ 30,850 # 100,000 The Average of the quotation is = E=116,910 == 29,102,50/yr Benefit From Ayouded cost Economic Benefit = Avoided costs (1-T) + Delayed x interest) TE the GRM's MARGINAL TAX RATE - IN the Absence of botter INFORMATION Assume

Economic benefit = 29,102 (0,54) = 15,715.00

PENALTY COMPUTATION WORKSHEET

Company Name: W.J. Smi		2 ' . I W		
Regulation Violated \cancel{RCRI}	9 3005(a)	- Permits		
Asessments for each violation separate worksheets and		termined		
(If more space is need	ded, attach sepa	rate sheet.)		
Part I - Seriousne	ess of Violation	Penalty		
1. Potential for Harm:	MANO	R		
2. Extent of Deviation:	MA	OR		
3. Matrix Cell Range:	20,8	00-25000		
Penalty Amount Choses		5,000		
Justification for Per Amount Chosen:	nalty prevents Vi Agencies Ex	em insuring site ofermit		
4. Per-Day Assessment:	25	5,000		
Part II - Penal	ty Adjustments			
Percentage Change* Dollar Amount				
<pre>l. Good faith efforts to comply/lack of good faith:</pre>	NIA	NA		
Degree of willfulness and/or negligence:	NA	NA		
3. History of noncompliance:	NA	NA		
4. Other unique factors:	NA	NA		
5. Justification for Adjustments:				
* Percentage adjustments as amount calculated on line	re applied to th	e dollar		

PENALTY COMPUTATION WORKSHEET (cont.)

6.	Adjusted Per-day Penalty (Line 4, Part I + Lines 1-4, Part II):	25,000
7.	Number of Days of Violation:	
8.	Multi-day Penalty (Number of days x Line 6, Part II):	25,000
9.	Economic Benefit of Noncompliance:	NA
	Justification:	
10.	Total (Lines 8 + 9, Part II):	25,000
11.	Ability to Pay Adjustment:	
	Justification for Adjustment:	NA
12.	Total Penalty Amount (must not exceed \$25,000 per day of violation):	<u>25,000</u>

PENALTY COMPUTATION WORKSHEET

Company Name: W.J. Smith Wood Proserving Co.				
Regulation Violated 40 CFR 265 Subpart F				
Asessments for each violation should be determined on separate worksheets and totalled.				
(If more space is needed, attach separate sheet.)				
Part I - Seriousness of Violation Penalty				
1. Potential for Harm: MAJOR				
2. Extent of Deviation: MAJOR				
3. Matrix Cell Range: 20,000 - 25000				
Penalty Amount Chosen: 25,000				
Justification for Penalty Amount Chosen:				
4. Per-Day Assessment: 25,000				
Part II - Penalty Adjustments				
Percentage Change* Dollar Amount				
1. Good faith efforts to comply/lack of good faith: **NA** *				
2. Degree of willfulness NA NA				
3. History of noncompliance: NA NA				
4. Other unique factors: NA NA				
5. Justification for Adjustments:				
* Percentage adjustments are applied to the dollar amount calculated on line 4, Part I.				

PENALTY COMPUTATION WORKSHEET (cont.)

	<u> </u>
6. Adjusted Per-day Penalty (Line 4, Part I + Lines 1-4, Part II):	25,000
7. Number of Days of Violation:	2
8. Multi-day Penalty (Number of days x Line 6, Part II):	25,000
9. Economic Benefit of Noncompliance: Justification: No Ground water Marchaling wells from 1980-1985	25551
10. Total (Lines 8 + 9, Part II):	50,000
11. Ability to Pay Adjustment: Justification for	
Adjustment:	_N/A_
12. Total Penalty Amount (must not exceed \$25,000 per day of violation):	<u>50,000</u>

PENALTY COMPUTATION WORKSHEET

Company Name: W. J. Smith wood PRESERVING Co.
Regulation Violated 40 CFR 265 Subpart 5
Assessments for each violation should be determined on separate worksheets and totalled.
(If more space is needed, attach separate sheet.)
Part I - Seriousness of Violation Penalty
1. Potential for Harm: Moderate
2. Extent of Deviation: MAJOR
3. Matrix Cell Range: 8,000 - 10,999
Penalty Amount Chosen: 9,500
Justification for Penalty MIDRANGE Amount Chosen:
4. Per-Day Assessment: 9,500
Part II - Penalty Adjustments
Percentage Change* Dollar Amount
1. Good faith efforts to comply/lack of good faith: NA NA
2. Degree of willfulness and/or negligence: N/A N/A
3. History of noncompliance: N/A N/A
4. Other unique factors: N/A N/A
5. Justification for Adjustments:
* Percentage adjustments are applied to the dollar amount calculated on line 4, Part I.

PENALTY COMPUTATION WORKSHEET (cont.)

6. Adjusted Per-day Penalty (Line 4, Part I + Lines 1-4, Part II):	9,500
7. Number of Days of Violation:	
8. Multi-day Penalty (Number of days x Line 6, Part II):	9500
9. Economic Benefit of Noncompliance:	N/A
Justification:	
10. Total (Lines 8 + 9, Part II):	9,500
11. Ability to Pay Adjustment:	
Justification for Adjustment:	N/A
12. Total Penalty Amount (must not exceed \$25,000 per day of violation):	9,500

Figures based on: Twells 100' deep 25' Acres 70' sand packs 30' gragionitina 4" Enside Liameter PVC construction Hollow stem auger Drilling = \$1200 1982 dollars neen = 250 Casing = 1275 Sand Back = 3238 167 \$21/H3 #3130 per well capital investment Costs will be incurred upon splacement.)

Sampling & Brakeis - O&H expense 11/8/ -> 11/82 Quarterly sampling of the following drinkingwater parameters drinkingwater parameters #197/well 197 x Twells x 4gtrs = 5516 indicator parameters # 125/set/well 125 x 7x4 = 3500 g.w. quality parameters \$ 85/well 85x7x4 (11396/4 11/82 -> 10/85 Annual & Semiannual (34rs) (4 events) 11/82 , 5/83 , 11/83 , 5/84, 11/84, 5/85 Semiannual sampling of Indicator para. 125 x 2 x 7 = 1750/yr anual sampling of g.w. quality fara-35x7 = 595 fyr

\$2345/yr

For Construction of 19:13:0 Seven (7) wells which Should have been 12000 18 12000 E1000 E1 THERETERS INTERPRETATION INCREMENT Taking the back of the between W. J. SMITH WOOD PRESERVING SEPTEMBER 17, 1986 ()原注原计算及基础的() ()自己的股票を原文的主要计算计算及例と例()加速的 : 日本の事の中の一部の一部の一部の一部の主義を報告 U字上記述等 10年を開始機を報告報告する。と表記載的報告等と認め返出報告 1.2012年1月 12年では、1.2012年1日 12年では、1.2012年1日 12年に対していません。 (日本文学 はなるようなとなるないのではなからならな ロボイズとなっ 日期を加る際を制を作さる。日本を測化率をよっぱれびと取る 元: Testal Testa THE REPORT BY THE PERSON THAT ? DESTRUCE OF DESCRIPTION OF PROPERTY THE ECONOMIC BENEFIT OF A 47 MONTH DELAY AS OF THE PENALTY PAYMENT DATE, 59 MONTHS THE PROPERTY OF THE PROPERTY OF THE PERSON O AFTER THE INITIAL DATE OF NONCOMPLIANCE \$ 9559 DEATERNETS DECEMBER TERRORIES DEATERNESS DEATERNESS DEATERNESS DEATERNESS DECEMBER TERRORIES TEACH ENGINEER TEACHER TEACHER TO THE FOR では、2012年1日 - 1202年2月 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10 (高さなないのでは、日本のはなると (高さななな) (2) お製を取り込まり割を受けることがは他の関係であるす。 これを選を関係であるか (サイズをディアの)のでは、サイズを受ける。 10年12日本本 12日本日本 では、他のでは、 日報を本で至っており間の開発に対し、開発に対し、開発 ->->->-> THE ECONOMIC SAVINGS CALCULATION ABOVE <-<-<-<-DESCRIPTION TO THE PROPERTY OF De terre l'entre le l'entre le l'entre le l'entre le l'entre l 工作的主题的10 TEATER PROPERTIES PROPERTIES USER SPECIFIED VALUES 1. CASE NAME = W. J. SMITH WOOD PRESERVING 2. INITIAL CAPITAL INVESTMENT = \$ 0 3. ONE-TIME NONDEPRECIABLE EXPENDITURE =\$ 21910 1982 DOLLARS ter Residentalisater (TAX DEDUCTIBLE EXPENSE) 4. ANNUAL O&M EXPENSE= 11. 1981 5. FIRST MONTH OF NONCOMPLIANCE= 6. COMPLIANCE DATE= 10, 1985 STANDARD VALUES ·中国的1201年上次1年 1201年1201年1201年 1201年1201年1201日 1201年1201年1201日 1201年1201年1201日 1201日 2.開き着を見たって下すができます。 2年を持ち 一般が影響を構造を表して、自然を表してきませばなどを表し、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、「これでは、」」」」 8. USEFUL LIFE OF POLLUTION CONTROL EQUIPMENT = 15 YEARS To the region of the contract to the contract of the contract 9. INVESTMENT TAX CREDIT RATE = 10.00 % 10. MARGINAL INCOME TAX RATE = 50.00 % 11. ANNUAL INFLATION RATE= 12. DISCOUNT RATE = 18.69 % 13. AMOUNT OF LOW INTEREST FINANCING = \$ 0

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Quarterly Sampling that Should have been completed between 11/81 and 11/82

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1. CASE NAME= W. J. SMITH WOOD PRES 2. INITIAL CAPITAL INVESTMENT =	BERVING	down and	-transati.		- 対象数はおいのなり	nm., and 2	- Ethelia G - Eth	-B/-B3-U3-U1
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4. ANNUAL D&M EXPENSE=	\$ 11396	1984	DOLLARS	Late Carte Carte	130175, 63x (13x e	top-de-top-de-t	「後のからずというないない。」	60 <u>3</u> 60
5. FIRST MONTH OF NONCOMPLIANCE=	11	, 1981						
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9. THUESTMENT TAY OPERATE -	TOTAL STATE OF THE PARTY.	4.7	1 00 4	TOTAL TO SERVICE STREET				
10. MARGINAL INCOME TAX RATE =	A LEGISLAND SCHOOL ST			NAT AND DESCRIPTION	1912/04/2/A1/A1	25/\$24/2006 e.	Full Committee and Section Committee	4.00
11. ANNUAL INFLATION RATE= 12. DISCOUNT RATE =		15	4.50 % 3.69 %					
12. DISCOUNT RATE = 13. AMOUNT OF LOW INTEREST FINANCING	=	-				Ereficiely at a Str	Tarita in	
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THE RESENTATE THAT EXPLORED BY BURNEY

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THE REAL PROPERTY.

W. J. SMITH WOOD PRESERVING

SHEET TO VIEW

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· シェーの開発を表示している。

SEPTEMBER 17, 1986

TOP OF THE PERSON ASSESSMENT

OF CHEST LINES OF CO.

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元456年20日 南西亚亚亚州 中国民族的民族宣传的经济宣传 16-15.0

ATTACHMENT NO. 15
WASTEWATER PRODUCTION

SHARES WARRE WARREST PRINCIPLING REPORT

instruc' supplem	tions: Please complete this form in as much d ental instructions and return this report to t	ne address shown in the instr	wetions.	on accepted sheets as nec	,
:. 53	Legal Name: W. J. SMITH WOOD PRE	SERVING CO.	(SAI	ME AS LEGAL NAME	1
(ME AS MAILING AD	
	4411ing Address: 1700 WEST MORTON P.O. BOX 703	21KEET	LOCATION:(SAI	IL AS TAILLING AD	DICESSI
	DENISON, TEXAS	z:, 75020			Z:=
	Name of Owner(s) KATTY INDUSTRIES		Rame of Operators (SAME AS LEGAL NA	
	• • .				
	MR. BILL REDDING, PRESIDENT.	W. J. SMITH WOOD	PRESERVING CO.	(214) 465-6161	
F.	Number of Employees 81	Number of Shifts		H. Humber of Months in	Coeration 12
t.	Provide the name of the publicly owned treats from this facility (If this facility is not DUCK CREEK WASTEWATER PLANT)	connected to a sewerage syste	M describe where waster	that receives the waste- water is discharged.)	eter chachanges
2. <u>w</u>	TURE OF OPERATION				
▲.	List Raw Materials Used: ROUGH-CUT WO	OOD RAILROAD TIES A	ND WOODEN UTIL	ITY POLES	
					
₿.	List Chemicals Used: (SEE APPENDI)	("A")	<u> </u>		
			<u></u>		
(<u>IE SEASONED WOOD IS</u>	PRESERVED BY	INJECTING CREOSO	TE UNDER
-			Pretreatment	 	j
	Process Description	Production Rate	Standard Category	Subsert	SIT Date
	WOOD PRESERVING	120.000 GAL/MO	TIMBER		2491
		CREOSOTE	PRODUCTS	PRESERVING	
	· · · · · · · · · · · · · · · · · · ·		PROCESSING	STEAM	
			<u> </u>	<u> </u>	<u> </u>
3. <u>wa</u>	STEWATER FLOW				
	Total Plant Flow in Gallons Per Day (gpt)	Average 38,200 Me	144 <u>338,0</u> 00*	F STORM WATER.	
\$.	*(NOTE: MAXIMUM FLOW INCLUDE Individual Process Flows in Gallons Per Day	(gpd)			3
3.	Individual Process Flows in Gallons Per Day Resulated Process	ES THE COLLECTION A (gpd) Average Flow Rate (spd)	Maximum	Type of	Gischange Cinucus, nine:
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3.	Regulated Process	Average Flow Mate (gpd)	Maximum Flow Rate (196)	Type of (betth, tim	*********
5.	Regulated Process TREATED EFFLUENT/	Average Flow Mate (gpd)	Maximum Flow Rate (196)	Type of (betth, tim	*********
1.	Regulated Process TREATED EFFLUENT/	Average Flow Mate (gpd)	Maximum Flow Rate (196)	Type of (betth, tim	*********
3.	Regulated Process TREATED EFFLUENT/	Average Flow Mate (gpd)	Maximum Flow Rate (196)	Type of (betth, tim	*********
8.	Regulated Process TREATED EFFLUENT/	Average Flow Mate (gpd)	#10w 2ate (2pt) 334.200	Type of SATCH BATCH	********
•.	Regulated Process TREATED EFFLUENT/	Average Flow Rate (3pd) 34.400	#10w 2ate (2pt) 334.200	Type of SATCH BATCH	*********
•.	Regulated Process TREATED EFFLUENT/	Average Flow Mate (gpd)	Fr. App	BATCH om. popudix D	RACOLUSE
•.	Regulated Process TREATED EFFLUENT/	Average Flow Rate (3pd) 34.400	Fr. App	BATCH om. popudix D	RACOLUSE
•	Regulated Process TREATED EFFLUENT/	Average Flow Rate (3pd) 34.400	Fr. App	BATCH om. popudix D	RACOLUSE
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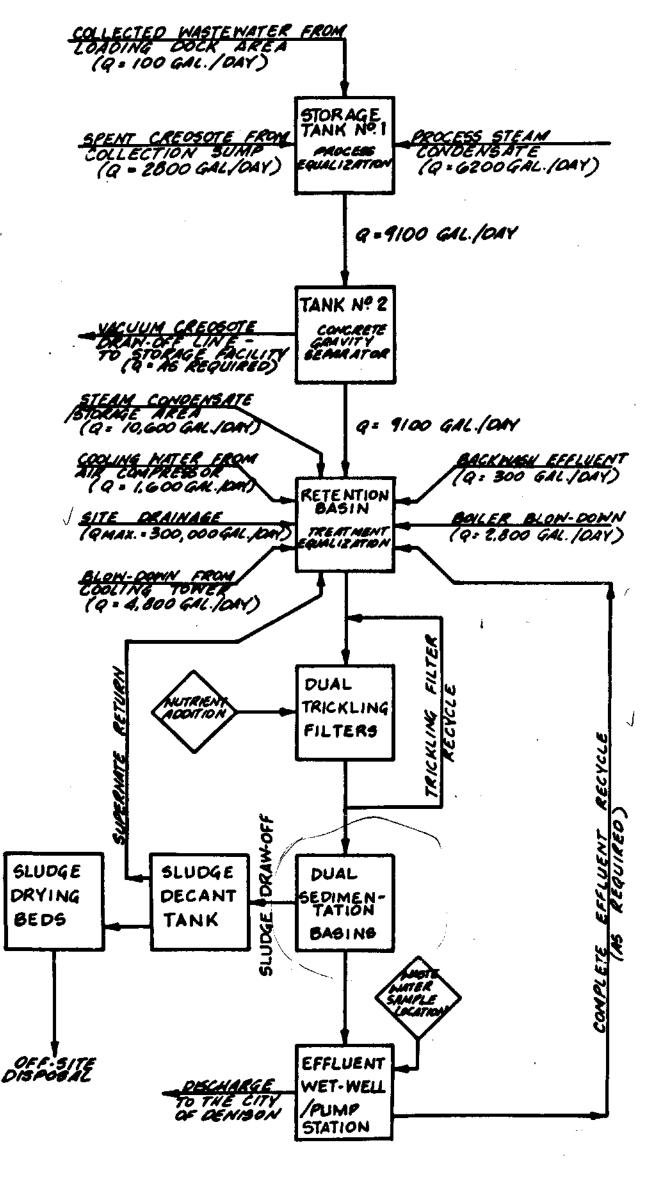
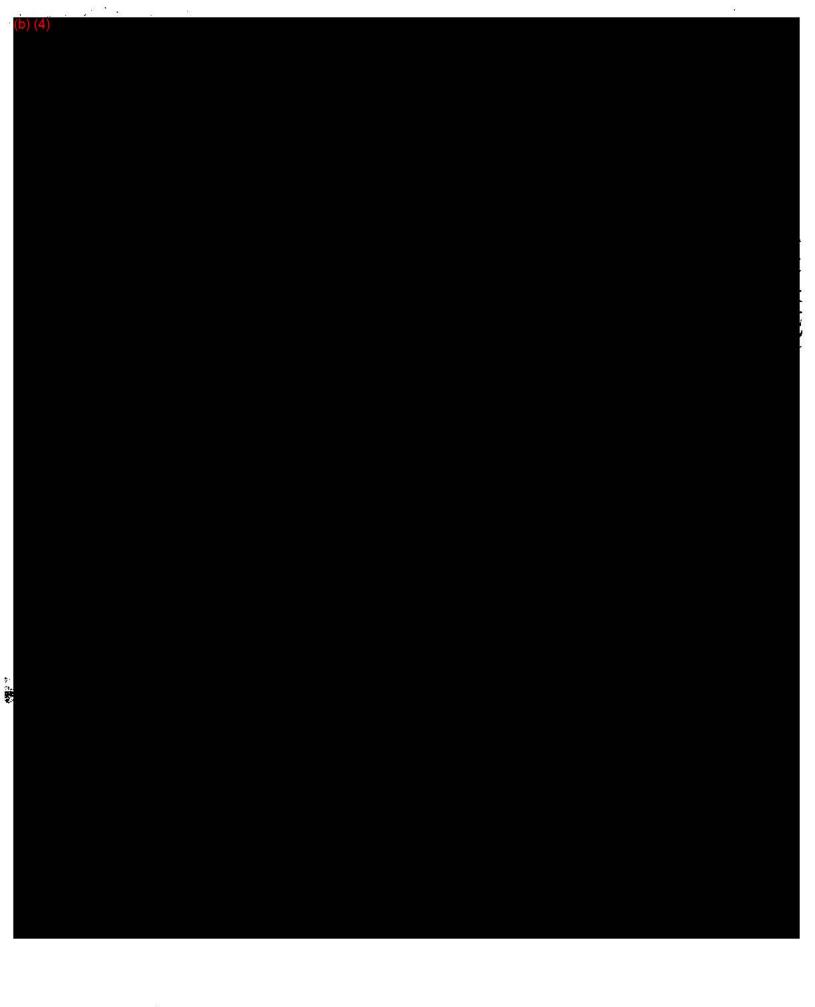


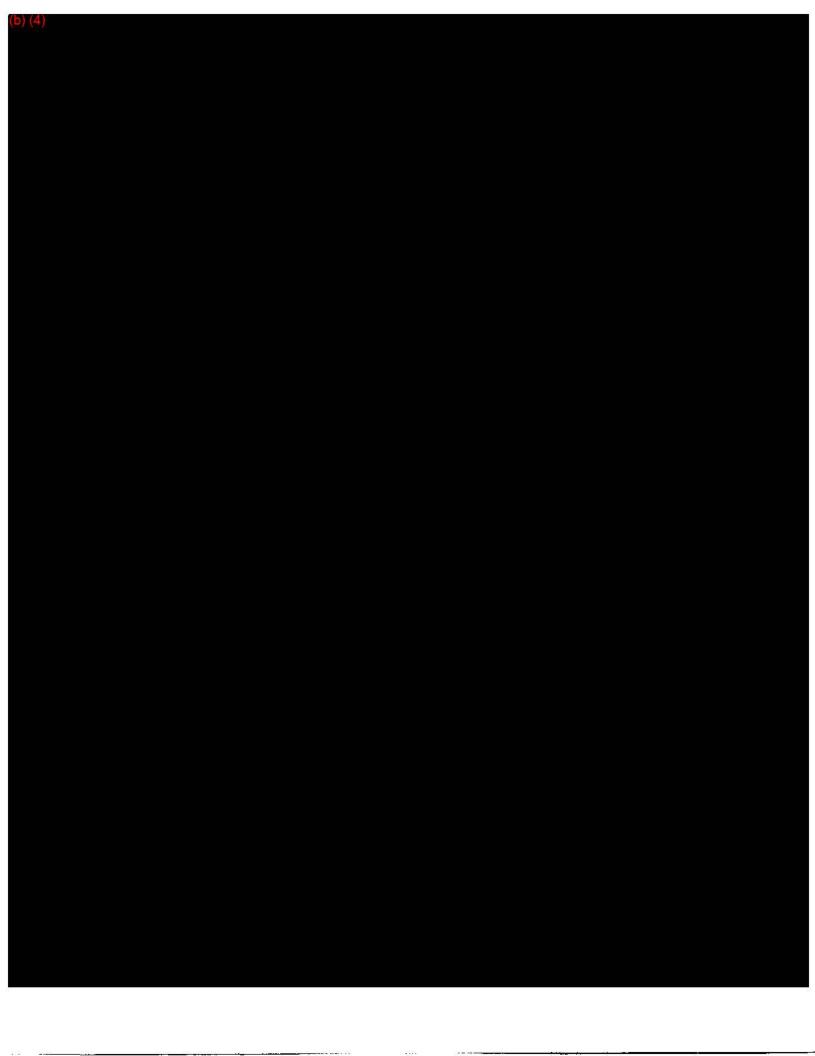
DIAGRAM I

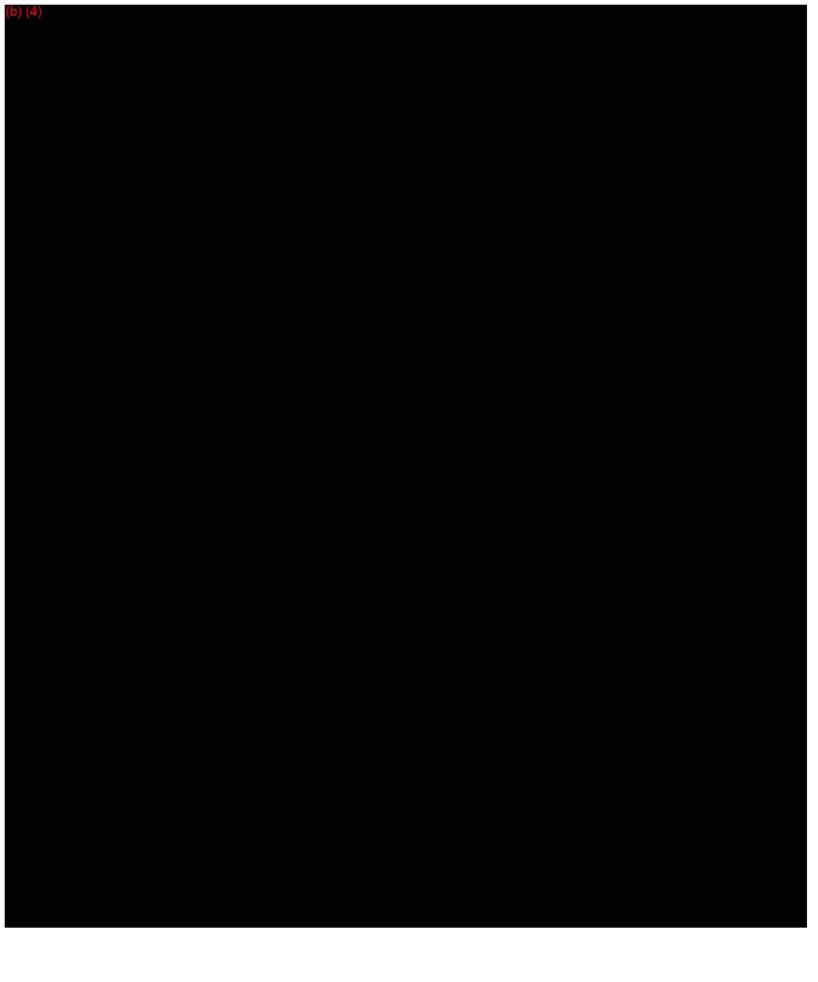
WASTEWATER TREATMENT SCHEMATIC

From Appendix
A
"Figures - TablesMaps"
W. J. Smith Part
B Permit Application

	Attachment	16	
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	Atta	Chment 17		
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI 1201 ELM STREET DALLAS, TEXAS 78270

February 13, 1987

MEMORANDUM

SUBJECT: Aspects Concerning the Groundwater

Monitoring System at W. J. Smith Wood Preserving

Company of Denison

TO:

William Taylor, Chief

Enforcement Section (6H-CE)

FROM:

Erlece P. Allen, Chief Erles P. Welen Technical Section (6H-CT)

We reviewed the submittals by Albert H. Halff Assoc. Inc. (November 1985, Part B and April 1986, Groundwater Detection Monitoring Program) representing W. J. Smith Wood Preserving Co. and TWC's July 23, 1986, CME report. From that evaluation it appears that technical inadequacies exist that may constitute violations in relation to the RCRA groundwater monitoring well design and installation requirements. Also, based on groundwater performance standards (§265.91(a), etc.). site characterization (geologic and hydrologic) is deficient.

The goals of a RCRA groundwater monitoring system in this case have not been satisfied. (Attached is a detailed review.) If you have any questions, please contact J. A. Trezzo at (214) 767-9727.

Sam Becker (6H-C)

ATTACHMENT

Groundwater Monitoring Well Construction

The groundwater monitoring wells were installed by Moser Drilling (Water Well Drillers). They employed a mud rotary drilling method using an 8" drill bit. Of the seven (7) monitoring wells installed during the time period of 10/17/85 to 10/26/85; five (5) wells encountered an "oil" in a zone above a limestone layer and in one case below this zone. Based on TWC's CME field report (see Table 1) the wells were constructed of 4 1/2" PVC (glued at the joints). Multiple screens (field slotted) were used in four (4) of the seven (7) wells. The multiple screens ranged in length from 5' to 20', while the single screens were 40' in length. The annulus was "cemented" from a confining layer to the ground surface (ranging from 10' to 45' below the ground surface and below the "oil" layer). The rest of the borehole was "gravelpacked"; the length varied from 60' to 90'. No surface pads or locking caps were reported to be present. The wells were developed by bailer for a one (1) hour duration.

Groundwater Monitor Well Construction Details in Halff's Report

Figure 1 and 2 and page 1 show the monitoring well installations as discussed in their submittals (See attachment). Based on TWC's field information, neither technique was used in actual field construction. It is unclear if figure 2 represents proposed wells or existing detection monitoring wells but regardless such construction would be deemed inadequate in light of RCRA monitoring well system objectives.

Technical Inadequacies:

Drilling Method

Mud rotary most likely is not the prefered method of drilling. It is important that the methods used minimize disturbance of the subsurface and do not continate the subsurface and groundwater. Mud can cause formation damage around the borehole and thereby affect the chemistry of the groundwater. If not properly developed, well efficiency is impeded and interference (turbidity) during sample analysis are enhanced. Also the types of mud used can affect the sampling results. Mud type and additives need to be determined. Mainly, since "oils" were present (zones of contamination) in the subsurface, such a method could cause contaminants to be circulated and transported throughout the borehole. (A question to ask: Was the drilling rig and equipment decontaminated between all boring locations.)

Monitoring Well Construction

a) PVC casing and screens

PVC can deteriorate when in contact with aromatic hydrocarbons and other organics. Aromatic hydrocarbon compounds are present in creosote (see Table 2). In light that creosote is the contaminant of concern, PVC may not be inert and thereby not the appropriate material to use. The facility should demonstrate the type of PVC used and its long term structural integrity in relation to the contaminants monitored.

b) Glue

The use of glues to assemble PVC joints is inappropriate and can cause sample bias. Solvent bonded joints can leach substantial quantities of solvent components into the groundwater.

c) Well Screen and Filter Pack

While multiple screens and long single screens are appropriate for water wells, they do not meet the objectives of RCRA, which is to immediately detect a release from the hazardous waste management area by monitoring preferential flow paths. Such an approach requires depth-discrete placement of monitoring wells in the formations; long and multiple well screens do not permit sampling of discrete portions of a formation but can extend over more than a single flow zone. Such monitor well installation techniques can result in execessive dilution of a contaminant to the point of causing detection difficulties, especially for gross indicator parameters. It should also be noted that such installations can cause accuracy difficulties in groundwater flow direction determinations.

Field slotted screens also can potentially cause problems. Such screens will not retain material efficiently, and this can cause well clogging in the future. The TEGD prohibits such screens.

The technique of using an extensive filter pack (60' to 90') is also inappropriate. Such a method does not provide a depth discrete sample horizon. A number of horizons can contribute to the groundwater samples. Also it needs to be determined if any sieve analyses have been run on the gravel pack and the characteristics of the gravel. (The TEGD recommends that filter packs should extend no more than 2' above the well screen)

d) Well Annulus

It is unclear if the technique of cementing the annulus casing from the confining layer to the ground surface will prevent contamination ("oil" or other constituents) from affecting the groundwater sample. It is unclear what type of cement was used and if such a sealant method will be effective to preclude migration down the sides of the borehole.

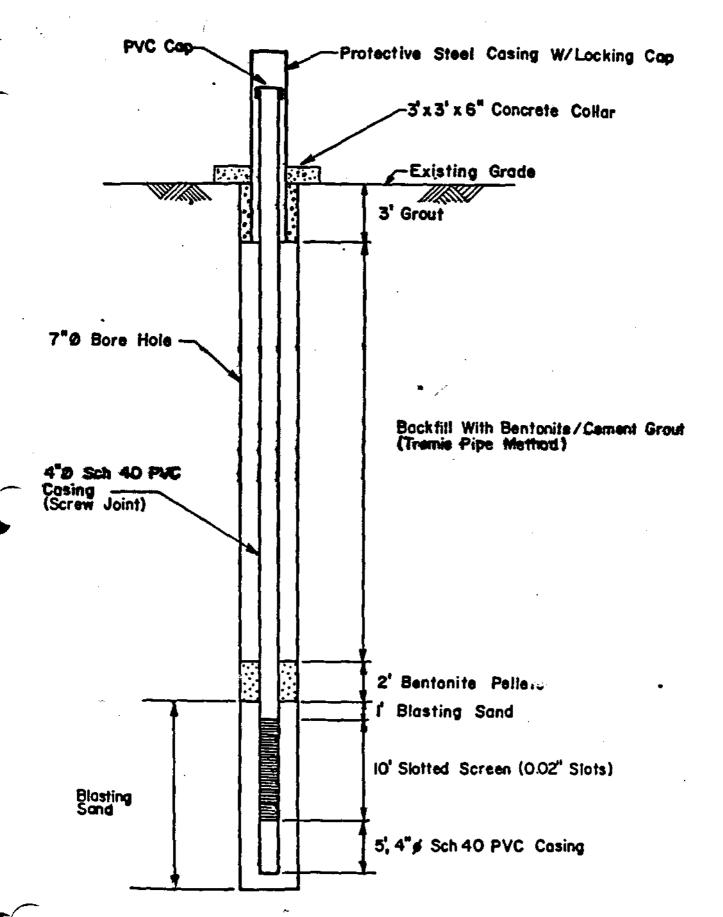
A double cased well would be preferred in such a situation. In this technique, a casing is set and cemented into the confining layer and a smaller diameter borehole is drilled inside employing RCRA monitoring well installation techniques.

e) Well Development

It is unclear how the monitoring wells were developed; according to the driller's log, a bailer was used to determine drawdown after l hour. It appears that such a method would not be adequate to properly develop a well to be clay and silt-free and restore natural formation hydraulic conductivity.

Site Characterization

Based on the two submittals only the seven (7) borings/monitoring wells were used to provide characterization of the subsurface hydrogeology. Such a number, in consideration of the heterogenous site conditions, is inadequate. Also the borings were drilled by water well drillers. It does not appear that a qualified professional was onsite during field borings and well construction. The boring logs do not provide detailed geotechnical information. According to the TEDG, boring logs should have a certain amount of information (see Table 3). Also appropriate field description and laboratory analyses of each significant geologic unit and soil zone should have been performed. It is unclear if soil samples were collected and at what intervals (if any) they were taken. No such information was available.



TYPICAL MONITORING WELL INSTALLATION

from Nov 85 Part B Applications (as installed details)

Flo: 16

Com April 86 Grand

MONITORING SYSTEM

Well Construction

A typical monitoring well installation detail for a confined aquifer is shown on the following page. The hole will be advanced, preferable with a hollow stemmed auger, although air rotary drilling may be used. During the drilling samples will be obtained at ten foot intervals, and at all visual textural changes. The hole will be 6 to 8 inches in diameter.

The casing to be used will be 2-inch. Schedule 40 PVC with treaded joints. All fabrication will be by thermal or sonic welding to eliminate possible contamination from solvents and cements.

The entire depth of the water bearing strata will be screened with 0.020 inch FVC screen. This will provide an open area of approximately 12.8 square inches per linear foot of screen.

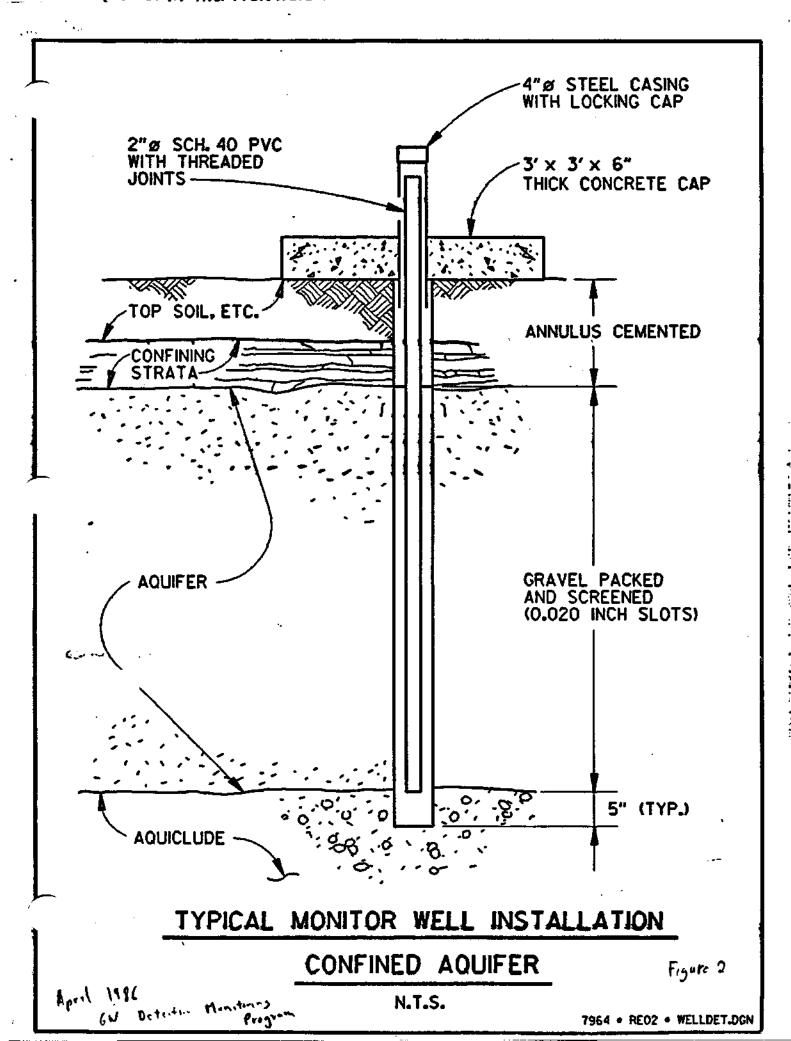
Based on information obtained from the existing monitoring wells, the depth of the proposed wells will range from 85 to 105 feet, and the length screened will vary from 35 to 70 feet.

The annular space will be cemented from the top of the aquifer to existing grade to prevent possible contamination.

The PVC casing will be terminated about three feet above grade and protected with a 4-inch stee! asing with a lockable cap.

Well Location

The wells are located approximately as indicated on Appendix D. The Groundwater Monitoring Well Location Map. Well Number 1 will function as the up-gradient well, and Wells 2 through 7 will be the down-gradient wells.



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<u></u>					1.		17-20		
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		le of Ne		ruction	Details	(10 +)	(1/+)	(+1)	
	,211 Number	1	Z	3	4	\$	6	ר -	
	pole diameter	√e"	√8.,	′8 "	√8"	8" V	8" ~	8" -	
	Total depth	V100°	106'	√ 98'	√82'	100' 2	105' U	95'	
	Drill method	totary	rotory	rotary	rotary	FOTO MY	mul	mud rosary	
1	Date drilled	10-17-85	10-18-85	10-33-85	10-23-85	10-24-85		10-26-85	
1	Casing I.D.	/4½"	44.	44."	ત્4∓	45"~	41/10	47,	
	Casing type	v Puc	fre	Puc	PUC	PUC	PUC	PUC	
	How joined	glued	glued	glued	gined	glued	glued	glued	
	Stick-up length	₩.A. (I)	A.A.	N.A.	310,	S 10,	R.M.R.	≥8'	
	T.O.CMSL	N.A. (3)	N.A.	MA.	MA.	M.A.	N.A.	MA.	
	Ground level-MSL V	711.0	760.5	761.0	737.0	745.0	756.D	748.5	 -
	Capped/Lockable	capped.	capped, no lock	capped, no lock	cappul, no lock	capped, no lock	capped, no lock	capped, no lock	
	Surface pad size	hone	hane	none	NONE	none	None	none	
	Depth of surface seal	none	none	none	none	none	none	none	
	Annulus Fili	Cement 0-10	Chinest U-33	Camera to	Cement U-30	Company 0-13	comp	Cerent	
	Depth-annulus seal	₹ 10'	ર 30'	× 20,	3 7 0,	≈ 30'	2451	\$ 30'	
	Depth-gravel pack	to ¹	30'	30'	30'	30'	45'	301	
	Length-gravel pack	90' 4	76' 100	68' %	82, 12	70' 1"	601 45		
	Size-gravel pack	pea groves	pea gravel	grovel	gravel	grave(gravel pea	pea groud	
	Depth to screen	1. 20' (3) 2. 60 3. 95'	1, 46 ' 2, 86'	1, 48'/ 2,78'	45'	40'	čs'	ss'	
	Screen I.D./slot	45"/~~	收"/w.A.	4± 1/N.A.	41/MA.	45"/M.A.	45%.A.	45"/WA	
	Screen type	PUL	Puc	Puc	Puc	PUC	PUC	PUC	
	Screen length	1. 31	1. 20°	l. 20' 2. 20'	40'	l. 20' 2. 20'	40'	40'	
_	Blank length	i, 35'	201	101	None	20'	none	hone	
	Development Nethod	buiter	batter	balter.	te:to	batter	Specifier .	bater	
	These elevations are be	~ 6 - 8 W	veyed C	No benz	mite use	23 Mul	riple scree	ns (4) Fiel	R slotred

Comments: a. hole diameter too small b. casing should not be glad c. wells not adequately

surveyed d. no well locks e. no bensonire seals f. screens too excensive / not machined

<u>A-</u>

CREOSOTE COMPOUNDS

hHC - arameter hy K - ketones	due carbins	Formula	Boiling Point	Concentration Range
Cournarone ~ K		C8H6O	174	A
p-Cymene - AHZ		C10H14	177	A
Indene		C9H8	182	A
Phenol - Akord		C6H6O	181	Α
O-Cresol - Acros		C7H8O	190	A
Benzonitrile -ANC		C7H5N	191	. A
m-Cresol		C7H8O	202	Α
Naphthalene - AHC		C ₁₀ H ₈	218	. D
Thionaphthene A-7		CeHeS	222	A
uinoline		C9H7N	243	A
2-Methylnaphthalene AtC		C11H10	241	В
Isoquinoline		C9H7N	238	A
1-Methylnaphthalene Asc		C ₁₁ H ₁₀	245	Α
4-Indanol		C9H10O	245	В
2-Methylquinoline		C ₁₀ H ₉ N	247	. A
Indole		C8H7N	252	A
Diphenyl AHC		C ₁₂ H ₁₀	255	A
1, 6-Dimethylnaphthalene APC		C ₁₂ H ₁₂	262	A
2, 3-Dimethylnaphthalene Anc		C ₁₂ H ₁₂	266	A
Acenaphthene AiiC		C ₁₂ H ₁₀	281	D .
Dibenzofuran		C ₁₂ H ₁₀ O	· 287	D
Fluorene		C13H10	299	D

•	Formula	Boiling Point	Concentration Range
1-Naphthonitrile AHC	C ₁₁ H ₇ N	, 297	. A
3-Methyldiphenylene AMC	C13H10O	298	В
2-Naphthonitrile AHC	C11H7N	304	A .
9, 10-Dihydroanthracene	C14H10	305	В
2-Methylfluorene	C14H12	318	В
Diphenylene Sulfide Avc	C12H8S	332	В
Phenanthrene AHC	C14H10	340	D
Anthracene 12/1/C	C14H10	342	С
Acridene	C13H9N	346	A
Methylphenanthrene AHC	C13H12	350	В
Carbazole	C12H9N	352	В
4, 5-Methylenephenanthrene	C ₁₅ H ₁₀	353	8
2-Methylanthracene AHC	C ₁₅ H ₁₂	360	A
9-Methylanthracene A4C	C ₁₅ H ₁₂	361	В
2-Methylcarbazole	C13H11N	363	. B
Fluoranthene AliC	C16H10	382	D
1, 2-Benzodiphenylene AHC	C ₁₆ H ₁₀ O	395	В
Pyrene	C16H10	393	В
Benzofluorene AHC	C17H12	413	·В
Chrysene	C18H12	448	В
Unidentified Compounds in Distillate			D

A = Compounds having a concentration less than 0.5%

B = Compounds having a concentration greater than 0.5% and less than 3.0%

Compounds having a concentration greater than 3.0% and less than 5.0%

Compounds having a concentration greater than 5.0%

TABLE #-3 FIELD BORING WEG INFORMATION

<u>General</u>

.

- Project name
- ** Hole name/number
- Date started and finished
- ** Geologist's name
- ** Driller's name
- Sheet number
- ** Hole location; map and elevation
- ** Rig type bit size/auger size
- ** Petrologic lithologic classification scheme used (Wentworth, unified soil classification system)

Information Columns

- * Depth
- 49 Sample location/number
- Blow counts and advance rate
- ** Percent sample recovery
- " Marrative description
- ** Depth to saturation

Narrative Description

- · Geologic Observations:
 - "- soil/rock type
 - *- color and stain
 - *- gross petrology
 - friability
 - *- moisture content
 - *- degree of weathering
 - "- presence of
 - carbonate

- *- fractures
- *- solution cavities
- "- bedding
- *- discontinuities:
 - e.g., foliation
- *- water-bearing zones
- *- formational strike
- and dip
- fossils
- Drilling Observations:
 - loss of circulation
 - *- advance rates -
 - rig chatter
 - *- water levels count of air used, air pressure
 - *- drilling
 - difficulties
- *- changes in drilling method or equipment
- *- readings from detective equipment. if any
- *- amount of water yield or loss during drilling at different depths

- "- depositional structures
- "- organic content
- -- odor
- suspected contaminant
- "- amounts and types of any liquids
 - used
- "- running sands *- caving/hole
 - stability

Other Remarks:

- equipment failures
- *- possible contamination
- *- deviations from drilling plan
- *- weather

^{*}Indicates items that the owner/operator should record, at a minimum.